



September 1, 2015

TO THE HONORABLE MEMBERS OF THE SCHOOL COMMITTEE:

Approval of Private School - Wild Rose Montessori School

Recommendation: That the School Committee approve The Wild Rose Montessori School, located at 2284 Massachusetts Avenue, Cambridge, Massachusetts as a private school, in accordance with the requirements of M.G.L. Chapter 76, Section 1.

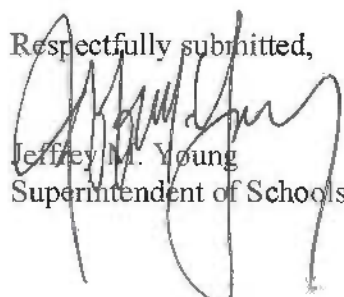
Description: Under Massachusetts General Laws, Chapter 76, Section 1 (compulsory attendance law), the School Committee has to approve private schools. The School Committee's approval under the statute means that children attending the private school may do so without violation of the compulsory attendance law. In giving an advisory opinion of the law as it relates to the committee's liability, the Massachusetts Department of Education has stated, "...that the School Committee's liability would be circumscribed by the fairly limited approval function that G.L. Chapter 76, Section 1, prescribes as long as the School Committee acts reasonably and in good faith."

The plan is to open the school on Wednesday, September 9, 2015, as a school for children from ages 5-8 (kindergarten-second grade). In 2016-17, it will encompass ages 6-9 (first-third grade) and will add an upper grade each year becoming a first-sixth grade school in 2019-20.

Enclosed is a written report from the school detailing various aspect of the school according to the suggested guidelines from the Department of Education.

Supporting Data: M.G.L. Chapter 76, Section 1

Respectfully submitted,


Jeffrey M. Young
Superintendent of Schools

JMY/db
Attachment

Wild Rose Montessori School

Philosophy and Objectives

Wild Rose Montessori School is a part of the Wildflower Montessori Network, an innovative approach to Montessori education started at the Social Computing Group at the MIT Media Lab. In 2015-16, Wild Rose will open at 2284 Mass Ave, Cambridge, MA as a school for children from ages 5-8 (kindergarten - second grade). In 2016-17, it will encompass ages 6-9 (first - third grade) and will add an upper grade each year becoming a first - sixth grade school in 2019 -20.

1. An Authentic Elementary Montessori Experience

Wild Rose embraces the authentic Montessori approach providing a combination of freedom and adult guidance that allows each child to meet their highest potential.

The core components of an authentic elementary Montessori classroom include a group of children with a three to six year age span, trained Montessori teachers and a carefully prepared environment that provides a wealth of learning opportunities. These opportunities mirror the interests of elementary age children, which can range from exploring how the solar system was born to baking bread to writing a play about ancient Egypt. Children want to explore all areas of knowledge, including those often not explored until high school such as chemistry, geometry and physics. They are ready to begin to do research and to develop creative ways of processing, exploring and expressing their knowledge.

The children consult a list of the Cambridge school system academic requirements for their grade level and understand that they are responsible for covering all of these topics during the course of the school year. The children find that after completing the required work, there is time to further explore their areas of personal interest. Teachers support the children in moving through the curriculum by giving sequenced lessons in all areas, keeping careful records of each child's individual progress and supporting children in keeping their own records of their work. Through this practice, children develop focus, self-discipline and effective time management skills. An uninterrupted three hour morning work cycle allows the children to explore topics in depth and to get into what neuroscientists call "the flow" - the deep focus and concentration that allows for optimum creativity. Children apply this creativity to all areas of the classroom, including math and science. The children work alone or in small groups. Opportunities for developing the skills of negotiation, collaboration, compassion and social awareness occur naturally throughout the day.

I never teach my pupils; I only attempt to provide the conditions in which they can learn.
Albert Einstein

2. An individualized system of education that supports the unique strengths and challenges of each child.

Montessori teachers are carefully trained observers with a deep knowledge of child development. As we observe each child, we develop a strong sense of who they are - their individual interests, learning style, sociability, level of activity and unique personality traits. We discern their strengths and challenges within these arenas and guide their learning to provide opportunities to stretch and experience success in the areas of challenge and explore the areas of strength in an unlimited way.

Children develop at different rates within each arena – social, physical, cognitive, emotional. We value and support each arena equally. We strive to help each child feel excited and appropriately challenged through the exploration of child-driven, meaningful learning experiences. We value the process of independently working through a challenge - whether it's problem-solving with a friend or unraveling a difficult math problem. Teachers carefully observe and give support when appropriate, but allow the child to experience the deep satisfaction of working through a challenge and arriving at a solution.

The secret to good teaching is to regard the child's intelligence as a fertile field in which seeds may be sown, to grow under the heat of flaming imagination. Our aim therefore is not merely to make the child understand, and still less to force him to memorize, but so to touch his imagination as to enthuse him to his innermost core. We do not want complacent pupils, but eager ones.....

Maria Montessori

3. The teacher/administrators view themselves as approachable, collaborative partners of the parents in the education of their children.

Wild Rose parents and teachers are united in their belief that an authentic Montessori education provides children with the best possible preparation for life. Parents participate in the day to day life of the classroom by visiting and observing regularly, helping with complex projects, supporting the work of the teacher/administrators in myriad ways and assisting the children as they begin to go out into the community for learning opportunities beyond the classroom. Children, parents and teachers have a deep sense of community that comes from an atmosphere of trust, respect and honesty.

Teachers act as resources for families and families act as resources for teachers. We share the joys and challenges of being with children during this wonderful, calm period of middle childhood. Parents feel comfortable coming to teachers with parenting questions and for guidance. Teachers are honest and direct with parents, aiming to partner with them to support children experiencing difficulty in the classroom. Monthly parent education opportunities allow parents to deepen their understanding of the Montessori philosophy. Parents and teachers share the belief that learning is more than memorizing

a list of facts. As beautifully stated by Montessori teacher Susan Stephenson, learning also includes -

...how to be a compassionate friend, to express care through thoughtfulness and good manners, to identify a problem and work hard to solve it, to know how to become happy. More than facts, we can help our children develop a love of learning, an ability to make intelligent and responsible choices; to concentrate and focus, and to do one's best to complete a task to the satisfaction of oneself rather than to please someone else.

At Wild Rose, parents and teachers work together to provide the children with an atmosphere of support that allows for this type of authentic learning.

Our Principles

Wild Rose Montessori is part of [Wildflower Schools](#), a decentralized network of independent schools that follow a shared approach to learning and organization. Wildflower is an open-source approach to Montessori learning developed at the [MIT Media Lab](#). Its aim is to be an experiment in a new learning environment, blurring the boundaries between home-schooling and institutional schooling, between scientists and teachers, between schools and the neighborhoods around them. At the core of Wildflower are the following 9 principles that define the approach, and that inform our philosophy and decisions at Wild Rose Montessori School.

An Authentic Montessori Environment - providing a peaceful, mixed-age, child-directed environment

In identifying Montessori as our guide for Wildflower schools, we were drawn to the unique combination of a few factors. The Montessori Method emphasizes the potential of the child, if served well, to change the world. We value its intrinsic respect for that potential, its promotion of peaceful communities, and its specific pedagogical structures. As a model which prioritizes the development of the individual child, we value the balance of Montessori's scientific approach to children's development and its assertion that childhood is a unique period of growth to be protected at its own pace.

A Shopfront, Neighborhood-nested Design - committed to remaining small, integrated in the community, and responsive to the needs of children. Inspired by the work of Christopher Alexander, Wildflower schools are shopfront schools that consist of a single classroom, with the faculty both teaching in the classroom and administering the needs of the school. By preserving a small scale, teachers are able to make decisions in their day-to-day teaching that

respond to the intellectual needs of the children, and are able to make decisions on a school-wide basis that respond to their own vision and the contextual needs of the families. The shopfront model also allows these communities to seamlessly integrate into neighborhoods. Children are visible in the community as they walk to and from school, to their local playground or garden, and to civic spaces that would otherwise be on-site in a larger institution.

A Lab School - a research setting dedicated to advancing the Montessori Method in the context of the modern world

Each of the Wildflower schools serves as a lab school to help us better understand and advance the Montessori Method, and to help us propose empirically-supported design for new materials. We seek to integrate modern technologies in observation and documentation without changing the concrete, didactic nature of the classroom itself. We further seek to refine the development of Montessori-consistent apparatuses that prepare children for the cognitive patterns of modern fluencies.

At **Wild Rose**, the teachers are working with MIT designers and engineers to create a system of concrete Montessori materials for teaching coding and binary number theory. These materials will be open-sourced and we look forward to sharing them with Tobin Montessori School and other Montessori schools.

A Seamless Learning Community - blurring the boundaries of home-schooling and institutional schooling

Wildflower schools look for ways in which children's home, school, and community environments can offer more seamless experiences, reflecting consistent perspectives on children's development and engaging them as authentic contributors in each setting. We believe that parents and families offer a knowledge about children that is equally important to the professional preparation of teachers, and seek opportunities for parent-knowledge to inform classroom practice and teacher-knowledge to inform the home.

An Attention to Nature - emphasizing the nonseparation between nature and human nature through a unique living-classroom design and extensive time in nature

It is both a contemporary imperative and an essential quality of our design that we think proactively about the impact of our work on the environment around us. By limiting the footprint of each school to a storefront, we necessarily limit the availability of private, outdoor space. Instead, we design the interior of the school to allow children to learn to care for their living environment and to surround them with abundant plant life. We site schools near to public play spaces and work with city partners to design sustainable urban gardens for which the school and neighborhood community can care. We carefully consider the materials used in the classroom and choose sustainable, nontoxic and earth-friendly options.

Finally, we maintain nutritional standards that are earth-conscious and protect natural, healthful diets for children.

In collaboration with the city of Cambridge, **Wild Rose** is home to an urban garden that is open to the community. The garden occupies two parking spaces in front of the school. The children will use this garden for science, art, nutrition and plant care activities.



An Artist-in-Residence - giving the children opportunities to observe and interact with adults doing day-to-day creative work

Because we believe that children learn best in environments that model lifelong learning and creativity, we engage artists-in-residence in each of our schools. We offer the artists studio space within the schools in a place that is accessible to the children, who can see them doing the work of their lives. In exchange, artists offer their work back to the classroom weekly, teaching children about their craft and helping children to develop their own skills. Through the artist-in-residence program, we seek to increase the awareness of the inner lives of children available to artists of all kinds and to protect children's understanding that learning and creating can happen throughout their lives and beyond their formal school experiences.

The **Wild Rose** artist in residence will be **RaMell Ross**. RaMell is the 2015 Sundance New Frontier Artist in Residence at the MIT Media Lab. A graduate of the Rhode Island School of Design, RaMell's photography has been featured in *The New York Times* and on book covers. He is currently working on a

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biographical documentary featuring the experiences of two young African American men growing up in rural Hale County, Alabama.

A Spirit of Generosity - setting aside a substantial part of the tuition base towards financial aid and being an involved member of the community

High-quality educational models all too often are limited to those families that can afford high tuition. This dynamic, coupled with the true costs of a high-quality education, lead to an increasing discrepancy in educational outcomes between families with and without resources. Wildflower seeks to address this discrepancy by limiting the financial demands of the schools by maintaining small programs, and identifying creative economic models that meet those demands, including early experiments with gift and sharing economies. In decision-making, we assess whether new structures will increase or restrict access to the programs for children across socioeconomic and other demographics.

At **Wild Rose**, we aim to keep our tuition as low as possible. All of our current student receive financial support through a grant from the Wildflower Foundation.

A Role in Shaping the Neighborhood - working with the community to improve local parks, streets, and establishments to create an urban environment that is healthier for children

Wildflower schools should change the way their immediate communities function and, as a part of a larger network, change the nature of their entire cities. The integration of children and families into the daily fabric of the neighborhood, we believe, will influence the lives of other neighbors, the questions asked in other educational settings, and the priorities of policymakers. We implement structures that make our work transparent to their communities and expand who we define as "stakeholders" to include more than just the families we serve. From opportunities for passers-by to stop and observe the classrooms to the presence of children in local eateries, from the public gardens we create and tend, to the regular, open information sessions to inform our community about our work, we judge our approach not only by its influence on enrolled children and their families but also on the city beyond our rolls

An Open-Source Design and Decentralized Network - advancing an ecosystem of independent Wildflower schools that mutually support one another. Finally, we recognize that issues of scale — including increased centralized decision-making, larger administrative bureaucracies and operational overhead — decrease the autonomy available to individual classrooms. At the same time, we value the practical benefits of a community of learners and professionals working together, and the economic efficiencies that can arise from shared resources. To balance those concerns, each school sees itself as a node in a network, maintaining autonomy in school-level decision-making while able to access the resources of the network when those resources are useful and

compelling to the school. Reciprocally, each school also sees itself not only as responsible for its own operations, but as responsible for helping other schools in the network, and for helping other interested family groups to start their own Wildflower schools.



Student Information

Population to be Served

For the 2015/16 school year, Wild Rose is open to children between the ages of 5 - 8. Our contracted students come from Cambridge, Arlington, Belmont and Somerville with just over half coming from Cambridge. All of our students were previously at independent schools or homeschooled. We plan to have 18 students by the start of school in September 2015. We plan to add 5 students per year as we add grade levels growing to a final size of 35 children in first through sixth grade by 2017. We will not accept kindergarteners after this year; the early childhood programs within the Wildflower Network will serve children from 3 - 6 and those children will feed into Wild Rose for elementary school.

Wild Rose Montessori admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities, generally accorded or made available to students at the school. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and other school-administered programs.

Student Services

Wild Rose provides a 10 month academic school year. An aftercare program will be available daily from 3:00 – 6:00 at an additional cost. Afterschool classes will be available if a majority of the families are interested in participating. Summer camps are offered through the Wildflower Network.

Children who are experiencing academic, behavioral, developmental or emotional challenges will be carefully observed and the teachers will meet with the parents to confer on a plan of support. If it is determined that the challenges can not be resolved within the classroom, the children will be referred to local specialists for evaluation and treatment. The teachers value the input of specialists and will incorporate their suggestions and strategies as closely as possible.

Financial Support

All of the currently contracted students receive financial support through a generous gift from the Wildflower Network. As the school population and tuition base grows, Wild Rose plans to devote a percentage of the tuition toward a

scholarship fund with the goal of creating an economically diverse population of students.

Student Learning Time

See calendar on following pages

Wild Rose Calendar 2015 - 2016

FALL 2015

September 8-September 11	Wild Rose Phase-In Week
Wednesday, September 23	Wild Rose Parent Montessori Evening
Friday, October 9	No School - Full-Day Professional Development Day
Wednesday, October 14	Wildflower Network Montessori Evening
Monday, October 12	No School - Columbus Day
Wednesday, November 11	No School - Veteran's Day
Wednesday, November 18	Noon Dismissal - Half-Day Professional Development Day & Wild Rose Parent Montessori Evening
November 25, 26, 27	No School - Thanksgiving Vacation
Friday, December 11	No School - Full-Day Professional Development Day
Wednesday, December 16	Wildflower Network Montessori Evening

WINTER 2015 - 2016

December 21 - January 3	Winter Break
Wednesday, January 13	Noon Dismissal - Half-Day Professional Development Day
Wednesday, January 20	Wild Rose Parent Montessori Evening
Monday, January 18	No School - Martin Luther King Jr. Day
Wednesday, February 17	Noon Dismissal - Half-Day Professional Development Day

Monday, February 15	No School - Presidents' Day
Wednesday, February 17	Wildflower Network Montessori Evening
Thursday, March 10	Noon Dismissal - Leave for AMS Conference
Friday, March 11	No School - AMS Conference in Chicago

SPRING 2016

March 14 - March 27	No School - Spring Vacation
Wednesday, April 13	Wild Rose Parent Montessori Evening
Friday, April 15	No School - Full Day Professional Development Day
Monday, April 18	No School - Patriots' Day
Wednesday, May 11	Wildflower Network Montessori Evening
Wednesday, May 18	Noon Dismissal - Professional Development Day
Monday, May 30	No School - Memorial Day
Wednesday, June 8	Last Day of School

Conferences

Fall and spring conferences will take place the weeks of:

- **October 19th, 2015**
- **April 25th, 2016**

Wild Rose Physical Plant and Safety

Wild Rose is in the process of renovating a rented shopfront space at 2284 Mass Ave. Wild Rose has a five-year lease and the option to re-new. The space has 2004 usable square feet. Windows across the front provide natural light in addition to abundant ceiling light. There is a large open classroom space with a closed hallway containing offices at the back of the space. There is a small library and a resident artist's studio. There is a bathroom in the classroom and handicap accessible boys and girls bathrooms in the common hallway. The front door is ADA compliant. There is a parking lot with spaces for all of the staff and abundant parking on the street.

The space was previously a salon. The renovation is being managed by the firm of Adams+Beasley Associates, <http://www.adamsbeasley.com/>. Angus Beasley, our contractor, is a parent in our school and dedicated to making the space safe and beautiful for the children. We have passed the fire alarm and fire department reviews. This information is attached to the email. As the permitting process is completed in the next week, we will forward all permits and other pertinent physical plant information. The architectural plans used for the permit request are attached.

For research and literary needs beyond the classroom, the children will walk to the nearby O'Neill Public Library. We will walk to Rev. Thomas J. Williams Park (4 minute walk) or Bergin Park (7 minute walk) for recess.

<https://www.google.com/maps/dir/2284+Massachusetts+Avenue,+Cambridge,+Mass/Cedar+Square,+Cambridge,+MA+02140/@42.3956574,-71.1301248,18z/data=!3m1!4b1!4m13!4m12!1m5!1m1!1s0x89e3771a2c28eea9:0x8325c86371b60f70!2m2!1d-71.1275447!2d42.3947331!1m5!1m1!1s0x89e3771b01a7d751:0x917f1f1c5d7f1a0a!2m2!1d-71.1303359!2d42.3956771>

A professional cleaning team will clean the school weekly. The teachers will clean and sanitize all areas daily.

Safety

The safety and health of our children and staff is our top priority.

Wild Rose will use the safety and emergency guidelines determined by the MA Department of Early Education and Care with regard to natural hazards such as snow and ice storms, tornados, hurricanes, earthquakes and flooding and technological hazards such as utility disruption, power outage, water loss, heat loss, fire hazardous materials, bomb threat or a suspicious article/message.

We will also follow these guidelines with regard to personal safety issues including medical emergency, missing child, response to an unauthorized or suspicious person through protective action, evacuation, shelter in place and recovery and restoration of operations. All of this information will be shared with parents in the parent handbook.

We will follow all fire department and zoning guidelines for fire drills, alarms, emergency signage and evacuation plans.

All staff will follow Massachusetts law regarding criminal background checks and will do yearly training in first aid and CPR. Children will be supervised by at least two adults at all times. Staff will follow the parent's directions on the release forms in releasing children to adults other than the custodial parents.

Our two outdoor access doors will be locked at all times. They will have push bars to allow easy evacuation in an emergency.

We will provide a healthy, organic snack on a daily basis and give parents guidelines on providing nutritious lunches.

We will use the EEC recommended forms for emergency contacts, release forms, health, immunization, disbursement of medication and allergy records. A first aid kit will be maintained according to EEC standards and taken to the park and on field trips along with emergency information for each child.

Wild Rose will give priority to operating its building and equipment in a safe manner. Teacher/administrators will be alert to any damage and have the necessary repairs made as soon as possible.

Our health and safety procedures will be evaluated by the staff yearly to ensure that we are operating in the safest way possible and meeting any updated city, state or federal regulations.

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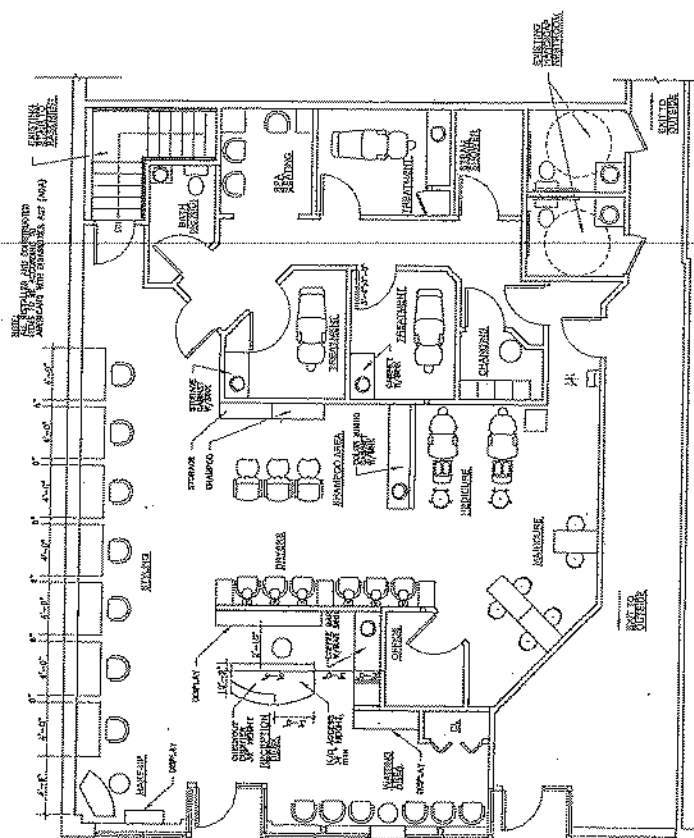
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2284 Massachusetts Avenue
Cambridge, MA
Willdore Montessori School

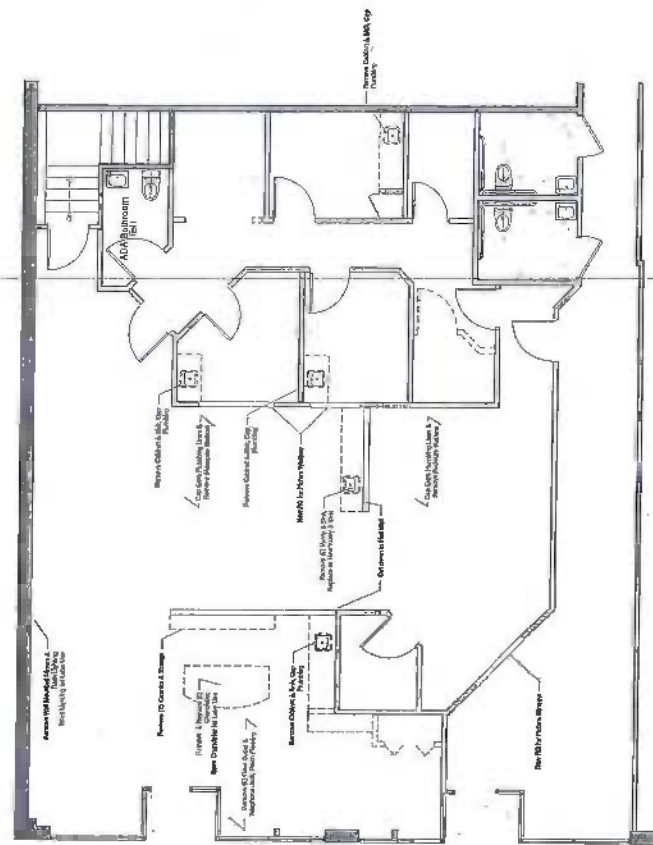
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 1-800-333-7666

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 1-800-333-7666



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2224 Mass Ave
Exeter, N.H. 03824

2284 Mass Ave
Demolition Plan

- [illegible]

Begin forwarded message:

From: Susan Tweed <susan@adamsbeasley.com>
Date: July 29, 2015 at 10:49:52 AM EDT
To: Justin Babcock <justin@adamsbeasley.com>, Sonia Cordeiro <sonia@adamsbeasley.com>, Angus Beasley <angus@adamsbeasley.com>
Subject: Fwd: Completion of City of Cambridge review of Pre-Application by Fire.

FYI, this is for the Montessori school.

----- Forwarded message -----

From: <donotreply@cambridgema.gov>
Date: Wed, Jul 29, 2015 at 9:35 AM
Subject: Completion of City of Cambridge review of Pre-Application by Fire.
To: susan@adamsbeasley.com

Dear applicant,

The Fire department has completed the review on Case Number BLDC-007525-2015.

Sincerely,

City of Cambridge



CITY OF CAMBRIDGE
FIRE DEPARTMENT
ISO CLASS 1
FIRE HEADQUARTERS
491 BROADWAY, CAMBRIDGE, MA. 02138
ph(617) 349-4918 fax(617) 349-4912



Application and Permit
Fire Alarm

In accordance with the provisions set forth in MGL Chapter 148 Section 27A; 527 CMR Board of Fire Prevention Regulations Section 24, and 780 CMR Massachusetts State Building Code Section 9, application is hereby made by:

Name: PAUL TROCKI SONAGUARD
(Full Name of Person, Firm, or Corporation)
Address: 15 COTTAGE ST.
(Street or PO Box)
City: HOLBROOK State: MA. Zip: 02343
Email: PTROCKI@Sonaguard.com Phone: 617-479-3200 Fax: 781-380-3630

**For Permission To Install, Modify, Repair Or Remove Any Fire Detection System,
Fire Warning System, Smoke Alarm Or Any Device Used For Fire Protection**

Job Location: 2284 MASS AVE. Floor/Area: 4 K SQ FT
Start Date: 7/10/15 Expiration Date: 10/10/15
Contracted By: _____ Building Permit#: _____
Electricians License #: 2342 D Technician License #: _____
Fire Permit Not Valid Without Building Permit

Submittals: ☐ Fire Protection Affidavit ☐ Fire Protection Narrative ☐ Impairment Plan
☐ Shop Drawings ☐ List of Devices ☐ CAD Disk

Description of Work: MODIFY EXISTING FIRE ALARM IN NEW SPACE

Fire protection systems shall not be disconnected or otherwise rendered unserviceable without first notifying the Fire Department. Applicant shall provide a written letter signed by the property owner or his agent acknowledging responsibility for the fire protection system during impairment. Fire protection systems must be restored at the end of each workday. A fire watch may be required pursuant to the nature of the impairment. By signing, I hereby acknowledge to abide by the requirements set forth in MGL 148 §27A; 527CMR §24; 780CMR §9 and the requirements of the Cambridge Fire Department.

Signature of Applicant: [Signature] Date: 7.10.15
Signature of Official Granting Permit: CAPT. [Signature]

Permit Number: 15389
(NOT VALID WITHOUT PERMIT NUMBER)

for office use only

→ This permit must be conspicuously posted upon the premises ←

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Wild Rose Curriculum and Educational Materials

As an authentic Montessori school, Wild Rose embraces the classic curriculum developed by Maria Montessori. The Montessori Foundation has aligned the Montessori curriculum to the Common Core standards used by Cambridge Public Schools. Our curriculum is based on this alignment. Here the Language Arts and Math Curriculums have been completely expanded to show the individual lessons and materials.

The carefully designed and sequenced Montessori materials are an integral component of the Montessori classroom. Wild Rose will have the full complement of materials for 5 -8 year old children and will add the appropriate materials as we add grades. The materials are organized by curriculum area and are available to the children on child-height shelves. Child sized chairs and tables are available to the children as workspaces. The tables allow for individual and small group work.

Kindergarten

Art, Music and Movement

- Basic Art Skills 5 Lesson/Materials
- Developmental Stages in Art 4 Lesson/Materials
- Basic Art Activities 8 Lesson/Materials
- Elements of Art 10 Lesson/Materials
- Exploring Art Materials and Techniques 12 Lesson/Materials
- Identifying Different Forms of Art 9 Lesson/Materials
- Creating Different Forms of Art 9 Lesson/Materials
- Music Activities 10 Lesson/Materials

- Making Music in the Classroom 13 Lesson/Materials
- Forms and Sounds of Musical Instruments 6 Lesson/Materials
- Types of Music 7 Lesson/Materials
- Musicians and Their Work 8 Lesson/Materials
- Creative Movement 10 Lesson/Materials

Geography

- Position and Direction 5 Lesson/Materials
- The Earth 16 Lesson/Materials
- Mapping: The World 9 Lesson/Materials
- Mapping: The Continents (Puzzle Maps) 27 Lesson/Materials
- Mapping Skills: Introduction to Map Reading 1 Lesson/Material
- Cultural Geography 9 Lesson/Materials
- Traditional American and International Holidays and Celebrations 41 Lesson/Materials
- Mapping Skills: Map Reading 3 Lesson/Materials
- Mapping Skills: Directions and the Town Game 3 Lesson/Materials
- Climates and Environments 9 Lesson/Materials
- Regions of the Country in Which We Live 1 Lesson/Material
- Vocabulary of Time 4 Lesson/Materials
- Exploring Concepts of Time 9 Lesson/Materials
- Understanding the Past 7 Lesson/Materials
- Telling Time on a Clock 3 Lesson/Materials
- Time Zones and Calendars 2 Lesson/Materials
- Personal and Family Time Lines 1 Lesson/Material

History

- Vocabulary of Time 4 Lesson/Materials
- Exploring Concepts of Time 9 Lesson/Materials

- Understanding the Past 7 Lesson/Materials
- Telling Time on a Clock 3 Lesson/Materials
- Time Zones and Calendars 2 Lesson/Materials
- Personal and Family Time Lines 1 Lesson/Material

Practical Life

- Basic Classroom Skills 14 Lesson/Materials
- Care of Environment: Basic Skills 13 Lesson/Materials
- Care of Environment: Indoors/Outdoors 14 Lesson/Materials
- Control of Movement: Basic Skills 8 Lesson/Materials
- Control of Movement: Fine Motor Skills 11 Lesson/Materials
- Control of Movement: Gross Motor Skills 19 Lesson/Materials
- Care of Person: Basic Skills 10 Lesson/Materials
- Care of Person: Dressing/Grooming 6 Lesson/Materials
- Care of Person: First Aid/Safety 10 Lesson/Materials
- Care of Person: Health and Wellness 7 Lesson/Materials
- Grace and Courtesy: General Language and Actions 13 Lesson/Materials
- Grace and Courtesy: Altruism, Kindness, Consideration 10 Lesson/Materials
- Grace and Courtesy: Group Etiquette 3 Lesson/Materials
- Grace and Courtesy: Intrapersonal Skills 2 Lesson/Materials
- Grace and Courtesy: Interpersonal Skills 4 Lesson/Materials
- Meals and Food Preparation 5 Lesson/Materials
- Classroom Skills 4 Lesson/Materials
- Personal Responsibility: General Safety and Security 2 Lesson/Materials
- Personal Responsibility: Care of Possessions

Science

- Introduction to Physical Properties of Substances 5 Lesson/Materials
- Physical Properties of Substances 11 Lesson/Materials
- Introduction and Exploration of Physical Principles 19 Lesson/Materials
- Being a Scientist: Measuring and Instruments 8 Lesson/Materials

- Being a Scientist: Observing and Recording 5 Lesson/Materials
- Being a Scientist: Conducting Investigations 8 Lesson/Materials
- Being a Scientist: Applying Knowledge 1 Lesson/Material
- Exploring Nature 5 Lesson/Materials
- Classifications of Plants and Animals 12 Lesson/Materials
- Introduction to Botany and Zoology 18 Lesson/Materials
- Energy 1 Lesson/Material
- Botany 31 Lesson/Materials

Sensorial

- Visual Discrimination (Size and Dimension) 12 Lesson/Materials
- Visual Discrimination (Color and Form) 29 Lesson/Materials
- Stereognostic Discrimination 2 Lesson/Materials
- Tactile Discrimination 11 Lesson/Materials
- Olfactory and Gustatory Discrimination 4 Lesson/Materials
- Auditory Discrimination

Language Arts

- Oral Language Development 2 Lesson/Materials
- Conversation Pictures 3 elements
- Picture Story 2 elements
- Auditory Discrimination and Phonemic Awareness 11 Lesson/Materials
- Rhyming: Singing Songs 2 elements
- Rhyming: Discussion 1 element
- Rhyming: Reading Books 1 element
- Rhyming: Matching Objects 1 element
- Word and Sound Games 2 elements
- Naming Objects in the Environment 2 elements
- I Spy Game: Initial Sounds 4 elements
- I Spy Game: Ending Sounds 4 elements

- I Spy Game: Middle Sounds 4 elements
- I Spy Game: Sounds in any Position 1 element
- Matching Word Sounds to Pictures 1 element
- Visual Discrimination 11 Lesson/Materials
- Matching (Object to Object) 1 element
- Matching (Object to Picture) 1 element
- Matching (Picture to Object) 1 element
- Matching (Picture to Picture) 1 element
- Three Period Lesson: Objects or Images 1 element
- Matching Parts to Whole 1 element
- Patterning with Beads 2 elements
- Patterning with Pictures 2 elements
- Alphabet Roll (Letter Mapping) 1 element
- Figure Ground Activities 1 element
- What's Missing? 1 element
- Concept Development 5 Lesson/Materials
- Sequencing a Story with Pictures 2 elements
- Matching Opposites with Pictures 2 elements
- Classified / Sorting Objects 2 elements
- Classified / Sorting Cards 2 elements
- "Go Together" Objects and Pictures 2 elements
- Speaking and Listening 8 Lesson/Materials
- Questioning Game 3 elements
- Following Spoken Directions 3 elements
- Listening to Stories: Asking and Answering Questions (Primary) 2 elements
- Listening to Stories: Building Vocabulary (Primary) 1 element
- Formal and Informal Conversation Skills (Primary) 1 element
- Story Telling (Primary) 2 elements
- Reciting from Memory (Primary) 1 element
- Sharing News (Primary) 3 elements
- Letter Sounds 7 Lesson/Materials
- Sandpaper Letters (Lower-case) 9 elements

- Sandpaper Letters (Lower-case) and Objects 8 elements
- Beginning Sound Sorting Pictures 9 elements
- Beginning Sounds the 'X' Out Game (What Sound Does Not Belong?) 1 element
- Sandpaper Letters (Capitals) 2 elements
- Sandpaper Letters (Capitals and Lowercase) 1 element
- Alphabet Roll (Letter and Sound Mapping) 1 element
- Beginning Handwriting 16 Lesson/Materials
- **Metal Insets: Single Outline** 4 elements
- Metal Insets: Double Outline 4 elements
- Metal Insets: Turning the Shape 3 elements
- Metal Insets: Two Contrasting Insets 2 elements
- Push Pinning 1 element
- Tracing Name/Pictures 2 elements
- Sandpaper Letters and the Sand Tray 1 element
- Chalk Board (Unlined) and Sandpaper Letters: Letter Families 6 element
- Chalk Board (Unlined): Letter Families 6 elements
- Chalk Boards (Squares): Letter Families 6 elements
- Chalk Boards (Lines): Letter Families 6 elements
- Chalk Board: Numbers 4 elements
- Pencil and Paper: Letters and Numbers 1 element
- Chalk Boards with Double Lines: Correct Positioning of Ascenders and Descenders 2 elements
- Sorting and Writing Ascending and Descending Letters 3 elements
- Picture Story Writing 2 elements
- Beginning Reading: Short Vowels 22 Lesson/Materials
- Transition to Moveable Alphabet 1 element
- Large Moveable Alphabet: Building Words 2 elements
- Large Moveable Alphabet: Building Words (Objects/Pictures) 2 elements
- Beginning to Decode Words with Letter and Word Cards 3 elements
- Object Box 1: Objects/Pictures to Words (Short a) 4 elements
- Object Box 1: Objects/Pictures to Words (Short e) 4 elements

- Object Box 1: Objects/Pictures to Words (Short i) 4 elements
- Object Box 1: Objects/Pictures to Words (Short o) 4 elements
- Object Box 1: Objects/Pictures to Words (Short u) 4 elements
- Vowel Tree (Short Vowel Sounds) 3 elements
- Large Moveable Alphabet: Building Words (Short Vowel Sounds) 2 elements
- Missing Letters 2 elements
- Word Lists (Short Vowel Sounds) 6 elements
- Rhyme Cards (Short Vowel Sounds) 1 element
- Secret Messages or Sound Box (Short Vowel Sounds) 2 elements
- Activity Words (Short Vowel Sounds) 2 elements
- Puzzle Words / Sight Words (Set 1: Reading, Spelling, Writing) 3 elements
- Labeling the Environment (Short Vowel Sounds) 2 elements
- Reading Sentence Phrases (Short Vowel Sounds) 1 element
- Reading Sentence Strips (Short Vowel Sounds) 3 elements
- Reading Beginner Books (Short Vowel Sounds) 3 elements
- Singular/Plural adding an 's' 1 element
- Beginning Reading: Consonant Blends and Digraphs 16 Lesson/Materials
- Object Box 2: Objects/Pictures to Words (Initial Consonant Blends) 7 elements
- Object Box 2: Objects/Pictures to Words (Ending Consonant Blends) 7 elements
- Object Box 2: Objects/Pictures to Words (Initial/Ending Consonant Digraphs) 6 elements
- Object Box 2: Objects/Pictures to Words (Initial/Ending Triple Blends) 6 elements
- Vowel Tree (Consonant Blends with Short Vowel Sounds) 3 elements
- Large Moveable Alphabet: Building Words (Consonant Blends) 1 element
- Large Moveable Alphabet: Building Words (Two or More Words) 3 elements
- Word Lists (Initial Consonant Blends) 5 elements
- Word Lists (Ending Consonant Blends) 5 elements
- Word Lists (Initial and Ending Consonant Digraphs) 4 elements

- Word Lists (Initial and Ending Triple Blends) 3 elements
- Secret Messages or Sound Boxes (Consonant Blends and Digraphs) 2 elements
- Activity Words (Consonant Blends and Digraphs) 1 element
- Labeling the Environment (Consonant Blends and Digraphs) 1 element
- Reading Sentence Strips (Consonant Blends and Digraphs) 3 elements
- Reading Beginner Books (Consonant Blends and Digraphs) 3 elements
- Beginning Reading: Long Vowels and Phonograms 4 Lesson/Materials
- Silent 'e' or "Magic e" (Long Vowel Sounds) 6 elements
- Vowel Tree (Long Vowel Sounds) 3 elements
- Large Moveable Alphabet: Building Words (Long Vowel Sounds) 1 element
- Phonogram Dictionary 3 elements
- Building Vocabulary 11 Lesson/Materials
- Classified Nomenclature Cards: Practical Life 3 elements
- Classified Nomenclature Cards: Sensorial 3 elements
- Classified Nomenclature Cards: Zoology 3 elements
- Classified Nomenclature Cards: Geography 2 elements
- Classified Nomenclature Cards: Geometry 3 elements
- Animals and Their Homes 1 element
- Animals and Their Sounds 1 element
- Animals and Their Young 1 element
- Command Cards: Simple Sentences 1 element
- Command Cards: Compound Sentences 1 element
- Command Cards: Complex Sentences 1 element
- Grammar: Parts of Speech (Miniature Environment Activities/The Farm) 23 Lesson/Materials
- Noun Game: Key Experience with Nouns 1 element
- Nouns: Labeling the Miniature Environment (The Farm) 3 elements
- Nouns: Moveable and Immoveable Objects 4 elements
- Nouns: Singular and Plural 3 elements
- Article Game: Key Experience with Articles 1 element
- Articles: Labeling the Miniature Environment (The Farm) 3 elements

- Articles: Moveable and Immovable Objects 2 elements
- Adjective Game: Key Experience with Adjectives 1 element
- Adjectives: Labeling the Miniature Environment (The Farm) 3 elements
- Adjectives: Moveable and Immovable Objects 2 elements
- Detective Adjective Game 3 elements
- Adjectives: Logical Agreement 2 elements
- Adjectives: Objects and Phrase Strips (Symbolizing Phrases) 2 elements
- Verb Game: Key Experience with Verbs 1 element
- Verbs: Labeling the Miniature Environment (The Farm) 3 elements
- Verbs: Objects and Phrase Strips (Symbolizing Phrases) 1 element
- Adverb Game: Key Experience with Adverbs 1 element
- Adverbs: Logical Agreement 1 element
- Adverbs: Phrase Strips (Symbolizing Phrases) 1 element
- Conjunction Game: Key Experience with Conjunctions 1 element
- Conjunction Phrase Strips (Symbolizing Phrases) 1 element
- Preposition Game: Key Experience with Prepositions 1 element
- Pronoun Game: Key Experience with Pronouns 1 element
- Building Phrases and Connected Text 3 Lesson/Materials
- Medium Moveable Alphabet: Phrases 3 elements
- Medium Moveable Alphabet: Sentences 3 elements
- Small Moveable Alphabet: Building Connected Text 8 elements
- Handwriting 4 Lesson/Materials
- Print: Lower and Upper-case Letters 2 elements
- Print: Spacing of Letters and Words 2 elements
- Cursive: Lower and Upper-case Letters 2 elements
- Cursive: Spacing of Letters and Words 2 elements
- Writing Mechanics: Capitalization and Punctuation 4 Lesson/Materials
- Capitalization: Initial Words in Sentences 1 element
- Capitalization: Proper Nouns / Pronouns 3 elements
- Punctuation: Periods (End of Sentences, Abbreviations) 1 element
- Punctuation: Question Marks and Exclamations 4 elements
- Word Study / Spelling 7 Lesson/Materials

- Compound Words 1 element
 - Suffixes 1 element
 - Graphemes/Word Families/Root Words 1 element
 - Antonyms / Opposites 0 elements
 - Synonyms 0 elements
 - Dictionary Skills (Alphabetization, Syllables, Locating Words, Parts of Speech) 4 elements
 - Using Dictionaries for Word Meanings and Spelling (Primary) 2 elements
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- Picture Story Writing (Journals) 2 Lesson/Materials
 - Noun Phrases and Simple Sentences 2 elements
 - Communicating with Drawings and/or Words 5 elements
 - Writing Process 5 Lesson/Materials
 - Prewriting: Understanding and Applying Strategies (Graphical Organizers, Listing, Brainstorming) 5 elements
 - Drafting: Developing a Thesis Statement 1 element
 - Drafting: Summarize Research Findings 1 element
 - Proofreading/Editing: Independently/Peer-Conferencing (Primary) 1 element
 - Producing and Publishing: Read Aloud to a Group or Creating a Hand-Written Book 2 elements
 - Descriptive Writing 4 Lesson/Materials
 - Elements: Vivid Sensory Details (Primary) 4 elements
 - Types: Description of a Person Essay (Primary) 1 element
 - Types: Description of a Place Essay (Primary) 1 element
 - Types: Description of an Object Essay (Primary) 1 element
 - Narrative Writing 8 Lesson/Materials
 - Elements: Setting (Primary) 4 elements
 - Elements: Character (Primary) 3 elements
 - Elements: Plot (Primary) 2 elements
 - Elements: Conflict (Primary) 2 elements
 - Elements: Resolution (Primary) 2 elements
 - Types: Personal Narrative (Primary) 1 element

- Types: Biographical Narrative (Primary) 1 element
- Types: Fictional Narrative (Primary) 1 element
- Expository Writing 5 Lesson/Materials
- Elements: Topic Sentences and Thesis Statements (Primary) 2 elements
- Elements: Organization (Lower Elementary) 0 elements
- Types: Informational Essay (Primary) 1 element
- Types: Procedural Essay (Primary) 1 element
- Types: Research Projects (Reports, Presentations, etc) (Primary) 1

element

- Persuasive Writing 4 Lesson/Materials
- Elements: Introduction with Clear Position Statement (Primary) 2 elements
- Elements: Careful Wording - Signal Words (Primary) 1 element
- Elements: Evidence to Support the Position (Primary) 1 element
- Types: Opinion Essay (Primary) 1 element
- Creative Writing 16 Lesson/Materials
- Elements: Point of View (Primary) 2 elements
- Elements: Theme (Lower Elementary) 0 elements
- Elements: Setting (Primary) 3 elements
- Elements: Character (Primary) 3 elements
- Elements: Plot (Primary) 2 elements
- Elements: Conflict (Primary) 2 elements
- Element: Resolution (Primary) 2 elements
- Elements: Resolution (Lower Elementary) 0 elements
- Types: Short Stories (Primary) 1 element
- Types: Informal Letters (Primary) 1 element
- Types: Informal Letters (Lower Elementary) 1 element
- Types: Thank You Letters (Primary) 1 element
- Types: Poems (Haiku, Cinquain, Diamante, Rhyming) 2 elements
- Types: Product Review (Book, Movie, Toy, etc.) (Primary) 1 element
- Types: Formal Letters (Primary) 1 element
- Types: Newspaper, Newsletter or Magazine Article (Primary) 1 element
- Research Skills 1 Lesson/Material

- Identifying and Accessing Sources of Information 0 elements
- Reading and Understanding Literature: Elements and Skills 18

Lesson/Materials

- Element: Setting (Primary) 1 element
- Element: Characters (Primary) 1 element
- Element: Main Events (Primary) 1 element
- Element: Conflict / Problem and Solution (Primary) 1 element
- Element: Point of View (Primary) 1 element
- Element: Illustrations and Multimedia (Primary) 1 element
- Element: Features and Organization of Various Types of Literature (Primary) 1 element
- Skill: Reading for Various Purposes (Enjoyment, Information) 4 elements
- Skill: Determining Type of Text (Literature or Informational/Fiction or Non-fiction) 1 element
- Skill: Determining Type of Literature (Various Genres) 3 elements
- Skill: Listening Comprehension - Read Alouds (Primary) 1 element
- Skill: Predicting (Primary) 1 element
- Skill: Asking Questions (Primary) 1 element
- Skill: Answering Questions (Primary) 1 element
- Skill: Making Connections (Primary) 4 elements
- Skill: Retelling and Determining Central Message (Primary) 1 element
- Skill: Comparing and Contrasting (Characters, Stories from Different Cultures) (Primary) 1 element
- Skill: Fluency (Expression, Choral Reading, Pace) (Primary) 1 element
- Reading and Understanding Literature: Applications 15 Lesson/Materials
- Picture Books: Predicting (Primary) 1 element
- Picture Books: Text Features (Primary) 2 elements
- Picture Books: Story Elements (Primary) 1 element
- Picture Books: Asking and Answering Questions (Primary) 2 elements
- Picture Books: Retelling (Primary) 1 element
- Poetry: Studying Poets 4 elements
- Poetry: Words and Phrases (Primary) 2 elements

- Poetry: Fluency (Primary) 2 elements
- Poetry: Ideas and Structure (Primary) 0 elements
- Folk Tales and Fables: Retelling (Primary) 1 element
- Folk Tales and Fables: Fluency (Primary) 1 element
- Folk Tales and Fables: Comparing and Contrasting (Primary) 1 element
- Myths: Retelling (Primary) 1 element
- Dramatic Interpretation (Primary) 1 element
- Literature Circles (Primary) 6 elements
- **Reading and Understanding Informational Texts: Elements and Skills 13**

Lesson/Materials

- Element: Point of View (Primary) 1 element
- Element: Reasons and Evidence (Primary) 1 element
- Element: Visual and Text Features (Primary) 2 elements
- Skill: Reading for Various Purposes (Research, Information, Enjoyment) 4 elements
- Skill: Determining Type of Text (Literature/Informational or Fiction/Non-fiction) 1 element
- Skill: Determining Type of Informational Texts (Expository, Persuasive, Narrative) 3 elements
- Skill: Listening Comprehension - Read Alouds (Primary) 1 element
- Skill: Predicting (Primary) 1 element
- Skill: Asking Questions (Primary) 1 element
- Skill: Answering Questions (Primary) 1 element
- Skill: Making Connections (Primary) 4 elements
- Skill: Retelling and Determining Main Idea (Primary) 1 element
- Skill: Comparing and Contrasting Information (Primary) 1 element
- **Reading and Understanding Informational Texts: Applications 11**

Lesson/Materials

- Picture Books: Predicting (Primary) 1 element
- Picture Books: Text Features (Primary) 2 elements
- Picture Books: Asking and Answering Questions (Primary) 1 element
- Picture Books: Retelling (Primary) 1 element

- Magazines and Newspapers: Text and Visual Features (Primary) 1 element
- Magazines and Newspapers: Main Ideas (Primary) 1 element
- Magazines and Newspapers: Reasons and Evidence (Primary) 1 element
- Biographies: Main Ideas (Primary) 1 element
- Biographies: Making Connections (Primary) 1 element
- Biographies: Point of View (Primary) 1 element
- Inquiry Circles (Primary) 6 elements
- Recording Levels for Reading and Vocabulary Skills 5 Lesson/Materials
- Reading: Reading with Purpose and Understanding 1 element
- Reading: Literature 1 element
- Reading: Informational Texts 1 element
- Vocabulary: Inferencing about the Meaning of Words in Context 2 elements
- Vocabulary: Using Grade-Appropriate Vocabulary 1 element

Mathematics

Decimal System: 0 to 10 6 Lesson/Materials

- Red and Blue Number Rods: 1 to 10 1 element
- Sandpaper Numerals: 0 to 9 1 element
- Red and Blue Number Rods and Numeral Cards 1 element
- Spindle Boxes: 0 to 9 3 elements
- The Zero Game 1 element
- Memory Game of Numbers: 0 to 10 1 element

Decimal System: 1, 10, 100 and 1,000 2 Lesson/Materials

- Numeral Cards: 1, 10, 100 and 1,000 1 element
- Golden Beads and Numeral Cards: 1, 10, 100 and 1,000 1 element

Decimal System: 1 to 9,999 7 Lesson/Materials

- Golden Beads: 1 to 9,999 (Tray of Nines) 1 element
- Golden Bead Materials: Exchanging (Bank Game) 1 element
- Golden Beads: Zero as a Placeholder 1 element
- Numeral Cards: 1 to 9,999 1 element
- Golden Beads and Number Cards: Constructing Quantities 2 elements
- Golden Beads: Decimal System Practice (Retrieving Quantities) 1 element

- 45 Layout (Bird's Eye View of Place Values) 2 elements
- **Linear Counting: 0 to 100** 7 Lesson/Materials
- Colored (Short) Bead Stair: 1 to 9 1 element
- Ten Bead Bars and Colored (Short) Bead Stair: 11 to 19 1 element
- Teen Boards 1 element
- Teen Board and Golden Beads 1 element
- Tens Board and Golden Beads: Names for Tens 1 element
- Tens Board and Golden Beads: Counting 11 to 99 2 elements
- **The Hundred Chain (Counting to 100 by Units)** 1 element
- **Patterns, Number Rolls, and Skip Counting** 6 Lesson/Materials
- The Hundred Chain and Arrows (Counting to 100 by Tens) 1 element
- The Hundred Board 2 elements
- The Thousand Chain and Arrows 3 elements
- Number Rolls 3 elements
- Short Bead Chains: Counting by Units and Skip Counting 9 elements
- Long Bead Chains: Counting by Units and Skip Counting 9 elements
- **Comparing, Rounding and Estimating Values** 4 Lesson/Materials
- Comparing Values: Equal, Less Than, Greater Than 5 elements
- Comparing Values: Preparing and Reading Simple Bar Graphs 2 elements
- Rounding to the Nearest 10s, 100s, and 1000s 3 elements
- Estimating Values 2 elements
- **Operations: Static Addition** 6 Lesson/Materials
- Red and Blue Number Rods: Sums of 5 and 10 2 elements
- Red and Blue Number Rods: Addition 2 elements
- Snake Game (Search for Ten) 1 element
- Bead Houses (Number Combinations 1 to 10) 1 element
- Golden Beads: 2- and 4-Digit Addends 2 elements
- Stamp Game: Up to 4-Digit Addends 1 element
- **Operations: Dynamic Addition** 2 Lesson/Materials
- Golden Beads: Up to 2- and 4-Digit Addends 2 elements
- Stamp Game: Up to 4-Digit Addends 1 element
- **Memorization of Math Facts: Addition** 20 Lesson/Materials

- Addition Strip Board 2 elements
- Addition Charts: 1 (Control Chart) 1 element
- Addition Charts: 2 (Commutative Chart) 1 element
- Addition Charts: 3 (Finger Chart) 1 element
- Addition Charts: 4 (Half Chart) 1 element
- Addition Charts: 5 (Slide and Hop Chart) 1 element
- Addition Charts: 6 (Blank Chart) 1 element
- Addition Bingo Games: 1 - 3 3 elements
- Even and Odd Addends ("The Odd One Out") 1 element
- Oral Memorization Games 1 element
- Positive (Addition) Snake Game 1 element
- Bead Bars: Addition of Two Addends 1 element
- Bead Bars: Addition of Triple Addends 1 element
- Bead Bars: Solving for Missing Addends 1 element
- Addition Problems with Parentheses 1 element
- Commutative Property of Addition 1 element
- Associative Property of Addition 1 element
- Addition with Number Lines 1 element
- Comparing Equations: Equal, Less Than, Greater Than 1 element
- Addition Story Problems 1 element
- **Passage to Abstraction: Addition 4 Lesson/Materials**
- Small Bead Frame: Up to 4-Digits (Static) 1 element
- Large Bead Frame: Up to 7-Digits (Static) 1 element
- Small Bead Frame: Up to 4-Digits (Dynamic) 1 element
- Large Bead Frame: Up to 7-Digits (Dynamic) 1 element
- **Operations: Static Subtraction 2 Lesson/Materials**
- Golden Beads: Up to 2 and 4-Digits 2 elements
- Stamp Game: Up to 4-Digits 1 element
- **Operations: Dynamic Subtraction 2 Lesson/Materials**
- Golden Beads: Up to 2 and 4-Digits 2 elements
- Stamp Game: Up to 4-Digits 1 element
- **Memorization of Math Facts: Subtraction 13 Lesson/Materials**

- Subtraction Strip Board 1 element
- Subtraction Charts: 1 (Control Chart) 1 element
- Subtraction Charts: 2 (Finger Chart) 1 element
- Subtraction Charts: 3 (Blank Chart) 1 element
- Subtraction Bingo Games: 1 - 3 3 elements
- Oral Memorization Games 1 element
- Negative (Subtraction) Snake Game 1 element
- Bead Bars: Subtraction of Two Digits 1 element
- Bead Bars: Solving for Unknown Addend (Inverse Relationship) 2 elements
- Subtraction Problems with Parentheses 1 element
- Subtraction with Number Lines 1 element
- Comparing Equations: Equal, Less Than, Greater Than 1 element
- Subtraction Story Problems 1 element
- **Passage to Abstraction: Subtraction 4 Lesson/Materials**
- Small Bead Frame: Up to 4-Digits (Static) 1 element
- Large Bead Frame: Up to 7 Digits (Static) 1 element
- Small Bead Frame: Up to 4-Digits (Dynamic) 1 element
- Large Bead Frame: Up to 7 Digits (Dynamic) 1 element
- **Operations: Multiplication (1- and 2-Digit Multipliers) 2 Lesson/Materials**
- Golden Beads: Up to 4-Digits x 1-Digit Multiplier 2 elements
- Stamp Game: Up to 4-Digits x 1-Digit Multiplier 2 elements
- **Memorization of Math Facts: Multiplication 11 Lesson/Materials**
- Multiplication Bead Board 1 element
- Multiplication Charts: 1 (Control Chart) 1 element
- Multiplication Charts: 2 (Commutative Control Chart) 1 element
- Multiplication Charts: 3 (Finger Chart) 1 element
- Short Bead Chains: Building Squares of 1 to 10 1 element
- Short and Long Bead Chains: Multiples of 1 to 10 1 element
- Bead Bar Layouts: Multiples of 1 to 10 0 elements
- Multiplication with Number Lines (Repeat Addition) 1 element
- Multiplication Problems with Parentheses 1 element
- Commutative Property of Multiplication 1 element

- Pythagoras Board 1 element
- Passage to Abstraction: Multiplication by One-Digit Multipliers, 1 Lesson/Material
- Small Bead Frame: Up to 4-Digits 2 elements
- Operations: Division (1-Digit Divisors) 2 Lesson/Materials
- Golden Beads: 1-Digit Divisor without Remainder 1 element
- Stamp Game: 1-Digit Divisor without Remainder 1 element
- Memorization of Math Facts: Division 3 Lesson/Materials
- Unit Division Bead Board 0 elements
- Division Charts: 1 (Finger Chart) 0 elements
- Division Charts: 2 (Blank Chart) 0 elements
- Passage to Abstraction: Division (1-, 2- and 3-Digit Divisors) 1 Lesson/Material
- Small Bead Frame: 1 Digit Divisor with or without Remainder 1 element
- Time and Money 8 Lesson/Materials
- Units of Time 1 element
- Equivalencies Between Units of Time 3 elements
- Units of Money 1 element
- Equivalencies Between Units of Money 1 element
- Counting Units of Money 1 element
- Comparing Amounts of Money: Equal, Less/Greater Than 2 elements
- Estimating with Units of Money 1 element
- Money Story Problems 1 element
- Measurement 5 Lesson/Materials
- Length: Measuring with Various Objects 2 elements
- Length: Imperial Units of Measurement (Inch, Foot, Yard) 1 element
- Length: Comparisons: Equal, Less/Greater Than 2 elements
- Weight: Imperial Units of Measurement (Ounces, Pounds) 1 element
- Volume: Imperial Units of Measurement (Cup, Pint, Quart) 1 element
- Understanding Fractions 6 Lesson/Materials
- Fractions in Everyday Life: Pizzas, Pies and Chocolate Bars 1 element
- Fraction Circles and Symbols 1 element

- Fraction Skittles and Symbols 1 element
- Fraction Notation and Language 3 elements
- Fraction Circles: Recognizing Equivalent Fractions 1 element
- Fraction Circles: Chart of Equivalents 1 element
- **Fraction Operations: Same Denominators 2 Lesson/Materials**
- Addition: Fraction Circles 1 element
- Subtraction: Fraction Circles 0 elements
- **Data, Statistics and Probability 6 Lesson/Materials**
- Reading Graphs: Pictographs, Pie Charts 2 elements
- Reading Graphs: Bar Graphs, Dot Plots 2 elements
- Collecting Data (Observations/Surveys) 2 elements
- Preparing Graphs with Whole Units 4 elements
- Preparing Graphs with Fractional Units 4 elements
- Understanding Probabilities 1 element
- **Inequalities 1 Lesson/Material**
- Reviewing the Symbols for Equal, Greater Than, Less Than 0 elements
- **Geometry: Exploration of Shapes 18 Lesson/Materials**
- Geometric Cabinet: Presentation Tray 2 elements
- Geometric Cabinet: Circles 2 elements
- Geometric Cabinet: Rectangles 2 elements
- Geometric Cabinet: Triangles 2 elements
- Geometric Cabinet: Regular Polygons 2 elements
- Geometric Cabinet: Four Curved Shapes 2 elements
- Geometric Cabinet: Four Quadrilaterals 2 elements
- Geometric Cabinet and Matching Card Set: Circles 3 elements
- Geometric Cabinet and Matching Card Set Rectangles 3 elements
- Geometric Cabinet and Matching Card Set: Triangles 3 elements
- Geometric Cabinet and Matching Card Set: Polygons 3 elements
- Geometric Cabinet and Matching Card Set: Curved Shapes 3 elements
- Geometric Cabinet and Matching Card Set: Quadrilaterals 3 elements
- Rectangle Box 1: Identifying Basic Quadrilaterals 1 element
- Rectangle Box 2: Sides of Triangles and Building Figures 1 element

- Rectangle Box 2: Obverse/Reverse (Heads and Tails) 0 elements
- Rectangle Box 2: Triangles as Constructors of Polygons 2 elements
- Triangular Box: Forming Stars (12, 6, and 4 Points) 1 element
- **Geometry: Lines and Angles 3 Lesson/Materials**
- Understanding Points, Line, Planes, Solids 0 elements
- Horizontal, Vertical and Oblique Lines 1 element
- Concept of Symmetry 1 element
- **Geometry: Polygons 5 Lesson/Materials**
- Geometric Stick Box: Open/Closed Figures 1 element
- Geometric Stick Box: Convex/Concave Figures 1 element
- Classifying Triangles by Sides 1 element
- Six Types of Quadrilaterals 1 element
- Regular Polygons 3 elements
- **Geometry: Perimeter and Area 5 Lesson/Materials**
- Understanding Perimeter of Plane Figures 1 element
- Perimeter of Squares 1 element
- Perimeter of Rectangles 1 element
- Perimeter of Triangles 1 element
- Perimeters of Regular Polygons 1 element
- **Geometry: Solid Figures 5 Lesson/Materials**
- Geometric Solids: Plane Figures vs. Solids (2-D vs. 3-D) 1 element
- Geometric Solids: Cube, Sphere, Cylinder, Cone 3 elements
- Geometric Solids: Similarities/Differences 1 element
- Geometric Solids: Constructing Solid Figures 1 element
- Flat and Curved Surfaces 1 element

First Grade

Art, Music and Movement

Basic Art Skills 2 Lesson/Materials

- Developmental Stages in Art 1 Lesson/Material
- Basic Art Activities 7 Lesson/Materials
- Elements of Art 10 Lesson/Materials
- Exploring Art Materials and Techniques 11 Lesson/Materials
- Identifying Different Forms of Art 9 Lesson/Materials
- Creating Different Forms of Art 10 Lesson/Materials
- Ancient Art 6 Lesson/Materials
- Artists and Their Work 14 Lesson/Materials
- Forms and Sounds of Musical Instruments 2 Lesson/Materials
- Music Theory with the Musical Bells 9 Lesson/Materials
- Music Theory with the Tone Bars 7 Lesson/Materials
- Types of Music 7 Lesson/Materials
- Musicians and Their Work 2 Lesson/Materials
- Creative Movement 5 Lesson/Materials

Cosmic Studies

- Laws of the Universe Experiments 22 Lesson/Materials
- First Great Lesson: Creation of the Universe 5 Lesson/Materials
- Second Great Lesson: The Coming of Life 17 Lesson/Materials
- Third Great Lesson: The Coming of Humans 8 Lesson/Materials

Geography

- Position and Direction 3 Lesson/Materials
- The Earth 13 Lesson/Materials
- Mapping: The World 8 Lesson/Materials
- Mapping: The Continents (Puzzle Maps) 35 Lesson/Materials
- Mapping Skills: Introduction to Map Reading 8 Lesson/Materials

- Mapping: The Continents (Pin Maps) 6 Lesson/Materials
- Cultural Geography 11 Lesson/Materials
- Traditional American and International Holidays and Celebrations 41 Lesson/Materials
- Mapping Skills: Map Reading 4 Lesson/Materials
- Mapping Skills: Directions and the Town Game 3 Lesson/Materials
- Mapping Skills: Interpreting Symbols, Distance, and Directions 4 Lesson/Materials
- Mapping Skills: Geographical Features, Latitude and Longitude 5 Lesson/Materials
- Mapping Skills: Using an Atlas 6 Lesson/Materials
- Mapping Skills: Map Making 7 Lesson/Materials
- Geographical Features of the World 1 Lesson/Material
- Climates and Environments 10 Lesson/Materials
- Regions of the Country in Which We Live 3 Lesson/Materials
- Impressionistic Charts 1 Lesson/Material

History

- Vocabulary of Time 4 Lesson/Materials
- Exploring Concepts of Time 9 Lesson/Materials
- Understanding the Past 7 Lesson/Materials
- Telling Time on a Clock 3 Lesson/Materials
- Time Zones and Calendars 2 Lesson/Materials
- Personal and Family Time Lines 2 Lesson/Materials
- Early Humans 7 Lesson/Materials
- Researching Historical Civilizations 1 Lesson/Material

Practical Life

- Care of Person: First Aid/Safety 10 Lesson/Materials
- Care of Person: Health and Wellness 12 Lesson/Materials

- Grace and Courtesy: General Language and Actions 13 Lesson/Materials
- Grace and Courtesy: Altruism, Kindness, Consideration 10 Lesson/Materials
- Grace and Courtesy: Group Etiquette 3 Lesson/Materials
- Grace and Courtesy: Intrapersonal Skills 7 Lesson/Materials
- Grace and Courtesy: Interpersonal Skills 1 Lesson/Material
- Meals and Food Preparation 6 Lesson/Materials
- Classroom Skills 4 Lesson/Materials
- Personal Responsibility: General Safety and Security 2 Lesson/Materials
- Personal Responsibility: Care of Possessions 3 Lesson/Materials
- Personal Responsibility: Organizational Skills 3 Lesson/Materials
- Going Out: Class or Small Group Trips 1 Lesson/Material

Science

- Introduction to Physical Properties of Substances 5 Lesson/Materials
- Physical Properties of Substances 11 Lesson/Materials
- Introduction and Exploration of Physical Principles 19 Lesson/Materials
- Being a Scientist: Measuring and Instruments 8 Lesson/Materials
- Being a Scientist: Observing and Recording 7 Lesson/Materials
- Being a Scientist: Conducting Investigations 7 Lesson/Materials
- Being a Scientist: Applying Knowledge 1 Lesson/Material
- Exploring Nature 5 Lesson/Materials
- Classifications of Plants and Animals 12 Lesson/Materials
- Introduction to Botany and Zoology 18 Lesson/Materials
- Energy 2 Lesson/Materials
- Technology 8 Lesson/Materials
- Astronomy 2 Lesson/Materials
- Earth Science 5 Lesson/Materials
- Zoology 23 Lesson/Materials
- Botany 33 Lesson/Materials

Language Arts

Auditory Discrimination and Phonemic Awareness 7 Lesson/Materials

- Rhyming: Singing Songs 1 element
- Word and Sound Games 1 element
- I Spy Game: Initial Sounds 4 elements
- I Spy Game: Ending Sounds 4 elements
- I Spy Game: Middle Sounds 4 elements
- I Spy Game: Sounds in any Position 1 element
- Matching Word Sounds to Pictures 1 element

Visual Discrimination 3 Lesson/Materials

- Three Period Lesson: Objects or Images 1 element
- Alphabet Roll (Letter Mapping) 0 elements
- What's Missing? 1 element

Concept Development 5 Lesson/Materials

- Sequencing a Story with Pictures 2 elements
- Matching Opposites with Pictures 1 element
- Classified / Sorting Objects 2 elements
- Classified / Sorting Cards 1 element
- "Go Together" Objects and Pictures 2 elements

Speaking and Listening 11 Lesson/Materials

- Questioning Game 1 element
- Following Spoken Directions 3 elements
- Listening to Stories: Asking and Answer Questions (Lower Elementary) 1 element
- Listening to Stories: Vocabulary (Lower Elementary) 1 element
- Listening to Stories: Main Ideas and Summaries (Lower Elementary) 0 elements
- Formal and Informal Conversation Skills (Lower Elementary) 3 elements
- Story Telling (Primary) 1 element
- Story Telling (Lower Elementary) 1 element
- Reciting from Memory (Lower Elementary) 2 elements
- Sharing News (Lower Elementary) 1 element
- Presenting Spoken Information (Lower Elementary) 0 elements

Letter Sounds 3 Lesson/Materials

- Sandpaper Letters (Capitals) 2 elements
- Sandpaper Letters (Capitals and Lowercase) 1 element
- Alphabet Roll (Letter and Sound Mapping) 1 element

Beginning Handwriting 7 Lesson/Materials

- Metal Insets: Single Outline 1 element
- Metal Insets: Double Outline 1 element
- Metal Insets: Turning the Shape 3 elements
- Metal Insets: Two Contrasting Insets 1 element
- Chalk Boards with Double Lines: Correct Positioning of Ascenders and Descenders 2 elements
- Sorting and Writing Ascending and Descending Letters 3 elements
- Picture Story Writing 2 elements

Beginning Reading: Short Vowels 5 Lesson/Materials

- Transition to Moveable Alphabet 1 element
- Large Moveable Alphabet: Building Words 2 elements
- Large Moveable Alphabet: Building Words (Objects/Pictures) 2 elements
- Activity Words (Short Vowel Sounds) 2 elements
- Puzzle Words / Sight Words (Set 1: Reading, Spelling, Writing) 3 elements

Beginning Reading: Consonant Blends and Digraphs 15 Lesson/Materials

- Object Box 2: Objects/Pictures to Words (Initial Consonant Blends) 2 elements
- Object Box 2: Objects/Pictures to Words (Ending Consonant Blends) 1 element
- Object Box 2: Objects/Pictures to Words (Initial/Ending Consonant Digraphs) 2 elements
- Object Box 2: Objects/Pictures to Words (Initial/Ending Triple Blends) 6 elements
- Vowel Tree (Consonant Blends with Short Vowel Sounds) 0 elements
- Large Moveable Alphabet: Building Words (Consonant Blends) 1 element
- Word Lists (Initial Consonant Blends) 5 elements
- Word Lists (Ending Consonant Blends) 5 elements

- Word Lists (Initial and Ending Consonant Digraphs) 4 elements
- Word Lists (Initial and Ending Triple Blends) 3 elements
- Secret Messages or Sound Boxes (Consonant Blends and Digraphs) 2 elements
- Activity Words (Consonant Blends and Digraphs) 1 element
- Labeling the Environment (Consonant Blends and Digraphs) 1 element
- Reading Sentence Strips (Consonant Blends and Digraphs) 3 elements
- Reading Beginner Books (Consonant Blends and Digraphs) 3 elements
- **Beginning Reading: Long Vowels and Phonograms** 23 Lesson/Materials
- Silent 'e' or "Magic e" (Long Vowel Sounds) 7 elements
- Vowel Tree (Long Vowel Sounds) 3 elements
- Large Moveable Alphabet: Building Words (Long Vowel Sounds) 1 element
- Phonograms (Key Sounds) "Long a" /aɪ/ (/ay/, /eɪ/) 3 elements
- Phonograms (Key Sounds) "Long e" /eɪ/ (/ey/, /ea/) 3 elements
- Phonograms (Key Sounds) "Long i" /iɪ/ (/igh/, /y/) 3 elements
- Phonograms (Key Sounds) "Long o" /oʊ/ (/oe/, /ow/) 3 elements
- Phonograms (Key Sounds) "Long u" /uɪ/ (/ou/, /ui/) 2 elements
- Phonograms (Key Sounds) Two Sound Phonemes /ou/, /oy/ 5 elements
- Phonograms (Key Sounds) "Bossy R-Phonograms" /er/, /ar/, /or/ 7 elements
- Phonograms (Key Sounds) "Short o" /au/ 3 elements
- Phonograms (Key Sounds) "Short and Long oo" /oo/ 3 elements
- Phonograms (Key Sounds) "Short u" /ou/ 3 elements
- Phonograms (Key Sounds) /sh/ and /ch/ 5 elements
- Phonograms (Key Sounds) /ph/, /gh/, /qu/ 4 elements
- Object Box 3: Objects/Pictures to Words (Long Vowel Sounds) 9 elements
- Phonogram Dictionary 3 elements
- Puzzle Words / Sight Words (Set 2: Reading) 3 elements
- Puzzle Words / Sight Words (Set 2: Spelling) 2 elements
- Large Moveable Alphabet: Building Words (Phonograms) 1 element
- Reading Sentence Strips (Phonograms) 3 elements
- Reading Beginner Books (Phonograms) 1 element
- Phonogram Booklets: Reading and Dictation 2 elements

• Building Vocabulary 9 Lesson/Materials

- Classified Nomenclature Cards: Practical Life 1 element
- Classified Nomenclature Cards: Sensorial 2 elements
- Classified Nomenclature Cards: Zoology 1 element
- Classified Nomenclature Cards: Geography 1 element
- Classified Nomenclature Cards: Geometry 1 element
- Classified Nomenclature Cards: Botany 2 elements
- Animals and Their Homes 1 element
- Animals and Their Sounds 1 element
- Animals and Their Young 1 element

• Grammar: Parts of Speech (Miniature Environment Activities/The Farm) 10 Lesson/Materials

- Detective Adjective Game 3 elements
- Adjectives: Objects and Phrase Strips (Symbolizing Phrases) 2 elements
- Verbs: Objects and Phrase Strips (Symbolizing Phrases) 1 element
- Adverb Game: Key Experience with Adverbs 0 elements
- Adverbs: Logical Agreement 2 elements
- Adverbs: Phrase Strips (Symbolizing Phrases) 1 element
- Conjunction Game: Key Experience with Conjunctions 0 elements
- Conjunction Phrase Strips (Symbolizing Phrases) 1 element
- Preposition Game: Key Experience with Prepositions 0 elements
- Pronoun Game: Key Experience with Pronouns 0 elements

• Grammar: Parts of Speech 16 Lesson/Materials

- Noun Games 3 elements
- Noun-Article Games 2 elements
- Noun-Adjective Games 2 elements
- Verb Games 2 elements
- Preposition Games 1 element
- Verb-Adverb Games 1 element
- Pronoun Games 1 element
- Conjunction Game 1 element
- Interjection Games 1 element

- Command Cards: Articles and Nouns 1 element
- Command Cards: Adjectives 1 element
- Command Cards: Verbs 1 element
- Command Cards: Prepositions 1 element
- Command Cards: Adverbs 1 element
- Command Cards: Pronouns 1 element
- Command Cards: Conjunctions 1 element
- **Building Phrases and Connected Text 3 Lesson/Materials**
- Medium Moveable Alphabet: Phrases 3 elements
- Medium Moveable Alphabet: Sentences 3 elements
- Small Moveable Alphabet: Building Connected Text 8 elements
- **Handwriting 5 Lesson/Materials**
- Print: Lower and Upper-case Letters 2 elements
- Print: Spacing of Letters and Words 2 elements
- Cursive: Lower and Upper-case Letters 2 elements
- Cursive: Spacing of Letters and Words 2 elements
- Cursive Writing 1 element
- **Writing Mechanics: Capitalization and Punctuation 6 Lesson/Materials**
- Capitalization: Initial Words in Sentences 1 element
- Capitalization: Proper Nouns / Pronouns 4 elements
- Punctuation: Periods (End of Sentences, Abbreviations) 1 element
- Punctuation: Question Marks and Exclamations 4 elements
- Punctuation: Apostrophe (Possession) 2 elements
- Punctuation: Apostrophe (Contractions) 1 element
- **Grammar: Sentence Elements and Analysis 7 Lesson/Materials**
- Grammar Box 2: Articles and Nouns 3 elements
- Grammar Box 3: Adjectives 3 elements
- Grammar Box 4: Verbs 1 element
- Sentence Analysis Charts 1 and 2 2 elements
- Sentence Analysis Boxes 1 1 element
- Conjugating Verbs: Simple Tenses 1 element
- Conjugating Verbs: Progressive Tenses 0 elements

Word Study / Spelling 13 Lesson/Materials

- Compound Words 2 elements
- Prefixes 1 element
- Suffixes 1 element
- Graphemes/Word Families/Root Words 1 element
- Antonyms / Opposites 0 elements
- Synonyms 0 elements
- Figurative Language: Similes and Metaphors 0 elements
- Figurative Language: Personification 0 elements [Record this lesson](#)
- Figurative Language: Alliteration, Assonance and Consonance 2 elements
- Figurative Language: Hyperbole 2 elements
- Figurative Language: Onomatopoeia 1 element
- Spelling Words in Isolation and in Connected Text 0 elements
- Using Dictionaries for Word Meanings and Spelling (Lower Elementary) 1 element

Picture Story Writing (Journals) 2 Lesson/Materials

- Noun Phrases and Simple Sentences 1 element
- Communicating with Drawings and/or Words 5 elements

Writing Mechanics: Sentence and Paragraph Structure 6 Lesson/Materials

- Writing Complete Sentences 3 elements
- Three Parts of a Paragraph 2 elements
- Organizing Writing into Paragraphs 2 elements
- Using Transition Words and Phrases Between Paragraphs 1 element
- Using Transition Words and Phrases Within Paragraphs 2 elements
- Indenting Paragraphs 2 elements

Writing Process 11 Lesson/Materials

- Six Traits of Effective Writing 7 elements
- Using a Writer's Notebook (Primary) 0 elements
- Using a Writer's Notebook (Lower Elementary) 2 elements
- Prewriting: Establishing a Purpose, Defining Audience and Organizing Thoughts 1 element

- Prewriting: Understanding and Applying Strategies (Graphical Organizers, Listing, Brainstorming) 6 elements
- Prewriting: Understanding and Applying Strategies (Mind-Mapping, Free-writing) 2 elements
- Drafting: Developing a Thesis Statement 1 element
- Drafting: Summarize Research Findings 1 element
- Proofreading/Editing: Independently/Peer-Conferencing (Primary) 0 elements
- Proofreading/Editing: Independently/Peer-Conferencing (Lower Elementary) 1 element
- Producing and Publishing: Read Aloud to a Group or Creating a Hand-Written Book 2 elements
- **Descriptive Writing 7 Lesson/Materials**
 - Elements: Vivid Sensory Details (Lower Elementary) 5 elements
 - Elements: Figurative Language (Lower Elementary) 2 elements
 - Elements: Main Impression or "Mood" (Lower Elementary) 0 elements
 - Elements: Careful Wording with Strong Verbs (Lower Elementary) 2 elements
 - Types: Description of a Person Essay (Lower Elementary) 1 element
 - Types: Description of a Place Essay (Lower Elementary) 1 element
 - Types: Description of an Object Essay (Lower Elementary) 1 element
- **Narrative Writing 8 Lesson/Materials**
 - Elements: Setting (Lower Elementary) 7 elements
 - Elements: Character (Lower Elementary) 3 elements
 - Elements: Plot (Lower Elementary) 5 elements
 - Elements: Conflict (Lower Elementary) 3 elements
 - Elements: Resolution (Lower Elementary) 5 elements
 - Types: Personal Narrative (Lower Elementary) 1 element
 - Types: Biographical Narrative (Lower Elementary) 2 elements
 - Types: Fictional Narrative (Lower Elementary) 1 element
- **Expository Writing 8 Lesson/Materials**

- Elements: Topic Sentences and Thesis Statements (Lower Elementary) 2 elements
- Elements: Transitions (Lower Elementary) 0 elements
- Elements: 4 E's - Examples, Explanations, Evidence, Elaboration (Lower Elementary) 2 elements
- Elements: Conclusion (Lower Elementary) 1 element
- Types: Informational Essay (Lower Elementary) 1 element
- Types: Procedural Essay (Lower Elementary) 3 elements
- Types: Compare/Contrast Essay (Lower Elementary) 3 elements
- Types: Research Projects (Reports, Presentations, etc) (Lower Elementary) 1 element

Persuasive Writing 7 Lesson/Materials

- Elements: Introduction with Clear Position Statement (Lower Elementary) 1 element
- Elements: Audience and Purpose (Lower Elementary) 1 element
- Elements: Careful Wording - Signal Words (Lower Elementary) 1 element
- Elements: Evidence to Support the Position (Lower Elementary) 1 element
- Elements: Conclusion Restating the Topic and Main Points (Lower Elementary) 2 elements
- Types: Opinion Essay (Lower Elementary) 3 elements
- Types: Problem/Solution Essay (Lower Elementary) 3 elements

Creative Writing 19 Lesson/Materials

- Elements: Point of View (Lower Elementary) 2 elements
- Elements: Theme (Lower Elementary) 2 elements
- Elements: Setting (Lower Elementary) 4 elements
- Elements: Character (Lower Elementary) 4 elements
- Elements: Plot (Lower Elementary) 4 elements
- Elements: Conflict (Lower Elementary) 4 elements
- Elements: Resolution (Lower Elementary) 4 elements
- Types: Short Stories (Primary) 2 elements
- Types: Short Stories (Lower Elementary) 1 element
- Types: Informal Letters (Primary) 1 element

- Types: Informal Letters (Lower Elementary) 1 element
- Types: Thank You Letters (Primary) 1 element
- Types: Thank You Letters (Lower Elementary) 1 element
- Types: Poems (Haiku, Cinquain, Diamante, Rhyming) 2 elements
- Types: Product Review (Book, Movie, Toy, etc.) (Lower Elementary) 1 element
- Types: Formal Letters (Primary) 1 element
- Types: Formal Letters (Lower Elementary) 1 element
- Types: Newspaper, Newsletter or Magazine Article (Primary) 1 element
- Types: Newspaper, Newsletter or Magazine Article (Lower Elementary) 1 element
- **Research Skills 2 Lesson/Materials**
- Identifying and Accessing Sources of Information 1 element
- Collecting Information 3 elements
- **Reading and Understanding Literature: Elements and Skills 18 Lesson/Materials**
- Element: Setting (Lower Elementary) 1 element
- Element: Characters (Lower Elementary) 2 elements
- Element: Main Events (Lower Elementary) 1 element
- Element: Conflict / Problem and Solution (Lower Elementary) 2 elements
- Element: Point of View (Lower Elementary) 1 element
- Element: Illustrations and Multimedia (Lower Elementary) 1 element
- Element: Features and Organization of Various Types of Literature (Lower Elementary) 1 element
- Skill: Reading for Various Purposes (Enjoyment, Information) 4 elements
- Skill: Determining Type of Text (Literature or Informational/Fiction or Non-fiction) 1 element
- Skill: Determining Type of Literature (Various Genres) 3 elements
- Skill: Listening Comprehension - Read Alouds (Lower Elementary) 1 element
- Skill: Predicting (Lower Elementary) 1 element
- Skill: Asking Questions (Lower Elementary) 2 elements

- Skill: Answering Questions (Lower Elementary) 2 elements
- Skill: Making Connections (Lower Elementary) 0 elements
- Skill: Retelling and Determining Central Message (Lower Elementary) 1 element
- Skill: Comparing and Contrasting (Characters, Books in a Series, Stories) (Lower Elementary) 1 element
- Skill: Fluency (Expression, Choral Reading, Pace) (Lower Elementary) 3 elements
- **Reading and Understanding Literature: Applications 24 Lesson/Materials**
 - Picture Books: Predicting (Lower Elementary) 1 element
 - Picture Books: Text Features (Lower Elementary) 1 element
 - Picture Books: Story Elements (Lower Elementary) 1 element
 - Picture Books: Asking and Answering Questions (Lower Elementary) 2 elements
 - Picture Books: Retelling and Recounting (Lower Elementary) 2 elements
 - Poetry: Studying Poets 4 elements
 - Poetry: Words and Phrases (Lower Elementary) 0 elements
 - Poetry: Fluency (Lower Elementary) 3 elements
 - Poetry: Ideas and Structure (Lower Elementary) 0 elements
 - Folk Tales and Fables: Retelling and Summarizing (Lower Elementary) 2 elements
 - Folk Tales and Fables: Fluency (Lower Elementary) 0 elements
 - Folk Tales and Fables: Comparing and Contrasting (Lower Elementary) 1 element
 - Folk Tales and Fables: Characters (Lower Elementary) 0 elements
 - Folk Tales and Fables: Illustrations and Multimedia (Lower Elementary) 0 elements
 - Myths: Retelling and Summarizing (Lower Elementary) 2 elements
 - Myths: Analyzing Words and Phrases (Lower Elementary) 0 elements
 - Classic Literature: Using Historical Context 0 elements
 - Classic Literature: Comparing and Contrasting 0 elements
 - Classic Literature: Point of View 0 elements

- Classic Literature: Analyzing Words 0 elements
- Classic Literature: Illustrations and Multimedia 0 elements
- Classic Literature: Literature Discussions 0 elements
- Dramatic Interpretation (Lower Elementary) 0 elements
- Literature Circles (Lower Elementary) 4 elements
- **Reading and Understanding Informational Texts: Elements and Skills 13**
Lesson/Materials
 - Element: Point of View (Lower Elementary) 2 elements
 - Element: Reasons and Evidence (Lower Elementary) 0 elements
 - Element: Visual / Text Features and Organization (Lower Elementary) 2 elements
 - Skill: Reading for Various Purposes (Research, Information, Enjoyment) 4 elements
 - Skill: Determining Type of Text (Literature/Informational or Fiction/Non-fiction) 1 element
 - Skill: Determining Type of Informational Texts (Expository, Persuasive, Narrative) 3 elements
 - Skill: Listening Comprehension - Read Alouds (Lower Elementary) 0 elements
 - Skill: Predicting (Lower Elementary) 0 elements
 - Skill: Asking Questions (Lower Elementary) 1 element
 - Skill: Answering Questions (Lower Elementary) 1 element
 - Skill: Making Connections (Lower Elementary) 1 element
 - Skill: Retelling and Determining Main Idea (Lower Elementary) 1 element
 - Skill: Comparing and Contrasting Information (Lower Elementary) 1 element
- **Reading and Understanding Informational Texts: Applications 12**
Lesson/Materials
 - Picture Books: Predicting (Lower Elementary) 0 elements
 - Picture Books: Text Features (Lower Elementary) 0 elements
 - Picture Books: Asking and Answering Questions (Lower Elementary) 1 element

- Picture Books: Retelling (Lower Elementary) 2 elements
- Magazines and Newspapers: Text and Visual Features (Lower Elementary) 2 elements
- Magazines and Newspapers: Main Ideas (Lower Elementary) 1 element
- Magazines and Newspapers: Reasons and Evidence (Lower Elementary) 0 elements
- Biographies: Main Ideas and Summarizing (Lower Elementary) 0 elements
- Biographies: Making Connections (Lower Elementary) 0 elements
- Biographies: Point of View (Lower Elementary) 1 element
- Analysis of Advertisements: Visual Media Comprehension (Lower Elementary) 0 elements
- Inquiry Circles (Lower Elementary) 3 elements
- **Recording Levels for Reading and Vocabulary Skills 5 Lesson/Materials**
- Reading: Reading with Purpose and Understanding 1 element
- Reading: Literature 1 element
- Reading: Informational Texts 1 element
- Vocabulary: Inferencing about the Meaning of Words in Context 2 elements
- Vocabulary: Using Grade-Appropriate Vocabulary 1 element

Mathematics

- System: 1 to 9,999 2 Lesson/Materials
- Golden Bead Materials: Exchanging (Bank Game) 1 element
- 45 Layout (Bird's Eye View of Place Values) 2 elements
- Linear Counting: 0 to 100 5 Lesson/Materials
- Teen Boards 1 element
- Teen Board and Golden Beads 1 element
- Tens Board and Golden Beads: Names for Tens 1 element
- Tens Board and Golden Beads: Counting 11 to 99 2 elements
- The Hundred Chain (Counting to 100 by Units) 1 element
- Patterns, Number Rolls, and Skip Counting 6 Lesson/Materials
- The Hundred Chain and Arrows (Counting to 100 by Tens) 1 element

- The Hundred Board 2 elements
- The Thousand Chain and Arrows 3 elements
- Number Rolls 2 elements
- Short Bead Chains: Counting by Units and Skip Counting 9 elements
- Long Bead Chains: Counting by Units and Skip Counting 9 elements
- Comparing, Rounding and Estimating Values 4 Lesson/Materials
- Comparing Values: Equal, Less Than, Greater Than 5 elements
- Comparing Values: Preparing and Reading Simple Bar Graphs 2 elements
- Rounding to the Nearest 10s, 100s, and 1000s 3 elements
- Estimating Values 2 elements
- Place Value, Large Numbers and Expanded Notation 4 Lesson/Materials
- Wooden Hierarchical Material: Quantities Greater than 9,999 0 elements
- Writing Numerals Greater than 9,999 0 elements
- Names of Number Families (Infinity Street) 3 elements
- Expanded Notation of Numbers 2 elements
- Operations: Static Addition 1 Lesson/Material
- Stamp Game: Up to 4-Digit Addends 1 element
- Operations: Dynamic Addition 2 Lesson/Materials
- Golden Beads: Up to 2- and 4-Digit Addends 2 elements
- Stamp Game: Up to 4-Digit Addends 1 element
- Memorization of Math Facts: Addition 23 Lesson/Materials
- Addition Strip Board 2 elements
- Addition Charts: 1 (Control Chart) 1 element
- Addition Charts: 2 (Commutative Chart) 1 element
- Addition Charts: 3 (Finger Chart) 1 element
- Addition Charts: 4 (Half Chart) 1 element
- Addition Charts: 5 (Slide and Hop Chart) 1 element
- Addition Charts: 6 (Blank Chart) 1 element
- Addition Bingo Games: 1 - 3 3 elements
- Positive (Addition) Snake Game 1 element
- Bead Bars: Addition of Two Addends 1 element
- Bead Bars: Addition of Triple Addends 1 element

- Bead Bars: Solving for Missing Addends 1 element
- Addition Problems with Parentheses 1 element
- Commutative Property of Addition 1 element
- Associative Property of Addition 1 element
- Addition with Number Lines 1 element
- Addition without Manipulatives: Two Addends 1 to 10 1 element
- Addition without Manipulatives: Three Addends 1 to 10 1 element
- Addition without Manipulatives: Missing Addends 1 element
- Addition without Manipulatives: Any Value (+10) 1 element
- Addition without Manipulatives: Any Value (+100) 1 element
- Comparing Equations: Equal, Less Than, Greater Than 1 element
- Addition Story Problems 1 element
- Passage to Abstraction: Addition 7 Lesson/Materials
- Small Bead Frame: Up to 4-Digits (Static) 1 element
- Large Bead Frame: Up to 7-Digits (Static) 1 element
- Golden Mat: Up to 7-Digits (Static) 0 elements
- Dot Game: Up to 4-Digits (Dynamic) 1 element
- Small Bead Frame: Up to 4-Digits (Dynamic) 1 element
- Large Bead Frame: Up to 7-Digits (Dynamic) 1 element
- Golden Mat: Up to 7-Digits (Dynamic) 1 element
- Operations: Static Subtraction 1 Lesson/Material
- Stamp Game: Up to 4-Digits 1 element
- Operations: Dynamic Subtraction 2 Lesson/Materials
- Golden Beads: Up to 2 and 4-Digits 2 elements
- Stamp Game: Up to 4-Digits 1 element
- Memorization of Math Facts: Subtraction 16 Lesson/Materials
- Subtraction Strip Board 1 element
- Subtraction Charts: 1 (Control Chart) 1 element
- Subtraction Charts: 2 (Finger Chart) 1 element
- Subtraction Charts: 3 (Blank Chart) 1 element
- Subtraction Bingo Games: 1 - 3 3 elements
- Negative (Subtraction) Snake Game 1 element

- Bead Bars: Subtraction of Two Digits 1 element
- Bead Bars: Solving for Unknown Addend (Inverse Relationship) 2 elements
- Subtraction Problems with Parentheses 1 element
- Subtraction with Number Lines 1 element
- Subtraction without Manipulatives: Two Values 1 to 18 1 element
- Subtraction without Manipulatives: Unknown Addends 1 element
- Subtraction without Manipulatives: Any Value (-10) 1 element
- Subtraction without Manipulatives: Any Value (-100) 1 element
- Comparing Equations: Equal, Less Than, Greater Than 1 element
- Subtraction Story Problems 1 element
- Passage to Abstraction: Subtraction 5 Lesson/Materials
- Small Bead Frame: Up to 4-Digits (Static) 1 element
- Large Bead Frame: Up to 7 Digits (Static) 1 element
- Small Bead Frame: Up to 4-Digits (Dynamic) 1 element
- Large Bead Frame: Up to 7 Digits (Dynamic) 1 element
- Golden Mat: Up to 7-Digits (Dynamic) 1 element
- Operations: Multiplication (1- and 2-Digit Multipliers) 4 Lesson/Materials
- Golden Beads: Up to 4-Digits x 1-Digit Multiplier 2 elements
- Stamp Game: Up to 4-Digits x 1-Digit Multiplier 2 elements
- Golden Beads: Up to 4-Digits x 2-Digit Multiplier 1 element
- Stamp Game: Up to 4-Digits x 2-Digit Multiplier 1 element
- Memorization of Math Facts: Multiplication 15 Lesson/Materials
- Multiplication Bead Board 1 element
- Multiplication Charts: 1 (Control Chart) 1 element
- Multiplication Charts: 2 (Commutative Control Chart) 1 element
- Multiplication Charts: 3 (Finger Chart) 1 element
- Multiplication Charts: 4 (Half Chart) 1 element
- Short Bead Chains: Building Squares of 1 to 10 1 element
- Short and Long Bead Chains: Multiples of 1 to 10 1 element
- Bead Bar Layouts: Multiples of 1 to 10 1 element
- Multiplication Snake Game 1 element
- Multiplication with Number Lines (Repeat Addition) 1 element

- Bead Bars: Arrays (Ways to Build a Product) 1 element
- Multiplication Problems with Parentheses 1 element
- Commutative Property of Multiplication 1 element
- Associative Property of Multiplication 1 element
- Pythagoras Board 1 element
- Passage to Abstraction: Multiplication by One-Digit Multipliers 2

Lesson/Materials

- Small Bead Frame: Up to 4-Digits 2 elements
- Large Bead Frame: Up to 7-Digits 1 element
- Preparation for Larger Multiplication 2 Lesson/Materials
- Multiplication by 10s, 100s, 1000s, with Golden Beads 3 elements
- Multiplication by 10s, 100s, 1000s, with the Small Bead Frame 3 elements
- Operations: Division (1-Digit Divisors) 4 Lesson/Materials
- Golden Beads: 1-Digit Divisor without Remainder 1 element
- Stamp Game: 1-Digit Divisor without Remainder 1 element
- Golden Beads: 1-Digit Divisor with Remainder 1 element
- Stamp Game: 1-Digit Divisor with Remainder 1 element
- Memorization of Math Facts: Division 3 Lesson/Materials
- Unit Division Bead Board 1 element
- Division Charts: 1 (Finger Chart) 0 elements
- Division Charts: 2 (Blank Chart) 0 elements
- Passage to Abstraction: Division (1-, 2-, and 3-Digit Divisors) 2

Lesson/Materials

- Small Bead Frame: 1 Digit Divisor with or without Remainder 1 element
- Large Bead Frame: 1 Digit Divisor with or without Remainder 1 element
- Time and Money 16 Lesson/Materials
- Units of Time 1 element
- Equivalencies Between Units of Time 3 elements
- Measuring and Counting Units of Time 1 element
- Comparing Time: Equal, Less/Greater Than 2 elements
- Rounding Units of Time 1 element
- Practical Applications of Units of Time 1 element

- Units of Money 1 element
- Equivalencies Between Units of Money 2 elements
- Counting Units of Money 1 element
- Converting Between Units of Money 1 element
- Comparing Amounts of Money: Equal, Less/Greater Than 2 elements
- Estimating with Units of Money 1 element
- Rounding Units of Money 4 elements
- Operations with Money and Making Change 2 elements
- Money Story Problems 1 element
- Practical Applications of Units of Money 0 elements
- Measurement 23 Lesson/Materials
- Length: Imperial Units of Measurement (Inch, Foot, Yard) 1 element
- Length: Metric Units of Measurement (Centimeter, Meter) 0 elements
- Length: Equivalencies Between Units (12 inches = 1 foot) 1 element
- Length: Comparisons: Equal, Less/Greater Than 2 elements
- Length: Estimating in Various Units 1 element
- Length: Rounding in Various Units 1 element
- Length: Story Problems 1 element
- Length: Practical Applications 0 elements
- Weight: Imperial Units of Measurement (Ounces, Pounds) 1 element
- Weight: Equivalencies Between Units (16 ounces = 1 Pound) 1 element
- Weight: Comparisons: Equal, Less/Greater Than 2 elements
- Weight: Estimating in Various Units 1 element
- Weight: Rounding in Various Units 1 element
- Weight: Solving Story Problems 0 elements
- Weight: Practical Applications 1 element
- Volume: Imperial Units of Measurement (Cup, Pint, Quart) 1 element
- Volume: Measuring with Scaled Containers 0 elements
- Volume: Comparisons: Equal, Less/Greater Than 2 elements
- Volume: Estimating in Various Units 1 element
- Volume: Rounding in Various Units 1 element
- Volume: Solving Story Problems 0 elements

- Volume: Practical Applications 1 element
- Temperature: Comparisons: Equal, Less/Greater Than 1 element
- Understanding Fractions 7 Lesson/Materials
- Fractions in Everyday Life: Pizzas, Pies and Chocolate Bars 1 element
- Fraction Circles and Symbols 1 element
- Fraction Skittles and Symbols 1 element
- Fraction Notation and Language 3 elements
- Fraction Circles: Recognizing Equivalent Fractions 1 element
- Fraction Circles: Chart of Equivalents 1 element
- Fraction Circle Box and Task Cards 1 element
- Fraction Operations: Same Denominators 3 Lesson/Materials
- Addition: Fraction Circles 1 element
- Addition: Fraction Circle Box Pieces 1 element
- Subtraction: Fraction Circles 1 element
- Data, Statistics and Probability 9 Lesson/Materials
- Reading Graphs: Pictographs, Pie Charts 2 elements
- Reading Graphs: Bar Graphs, Dot Plots 2 elements
- Collecting Data (Observations/Surveys) 2 elements
- Introduction to Statistics: Questions with Variable Answers 1 element
- Introduction to Statistics: Mean (Average) 2 elements
- Preparing Graphs with Whole Units 4 elements
- Preparing Graphs with Fractional Units 4 elements
- Understanding Probabilities 1 element
- Probabilities with Concrete Materials 1 element
- Inequalities 1 Lesson/Material
- Reviewing the Symbols for Equal, Greater Than, Less Than 1 element
- Geometry: Exploration of Shapes 18 Lesson/Materials
- Geometric Cabinet: Presentation Tray 2 elements
- Geometric Cabinet: Circles 2 elements
- Geometric Cabinet: Rectangles 2 elements

- Geometric Cabinet: Triangles 2 elements
- Geometric Cabinet: Regular Polygons 2 elements
- Geometric Cabinet: Four Curved Shapes 2 elements
- Geometric Cabinet: Four Quadrilaterals 2 elements
- Geometric Cabinet and Matching Card Set: Circles 3 elements
- Geometric Cabinet and Matching Card Set Rectangles 3 elements
- Geometric Cabinet and Matching Card Set: Triangles 3 elements
- Geometric Cabinet and Matching Card Set: Polygons 3 elements
- Geometric Cabinet and Matching Card Set: Curved Shapes 3 elements
- Geometric Cabinet and Matching Card Set: Quadrilaterals 3 elements
- Rectangle Box 1: Identifying Basic Quadrilaterals 1 element
- Rectangle Box 2: Sides of Triangles and Building Figures 1 element
- Rectangle Box 2: Obverse/Reverse (Heads and Tails) 0 elements
- Rectangle Box 2: Triangles as Constructors of Polygons 2 elements
- Triangular Box: Forming Stars (12, 6, and 4 Points) 1 element
- Geometry: Lines and Angles 10 Lesson/Materials
- Understanding Points, Line, Planes, Solids 1 element
- Straight and Curved Lines 1 element
- Parts of a Straight Line 1 element
- Horizontal, Vertical and Oblique Lines 1 element
- Divergent and Convergent Lines 1 element
- Parallel and Perpendicular Lines 1 element
- Intersecting Lines 1 element
- Concept of Symmetry 1 element
- Concept of an Angle 1 element
- Whole and Straight Angles 1 element
- Geometry: Polygons 11 Lesson/Materials
- Geometric Stick Box: Open/Closed Figures 1 element
- Geometric Stick Box: Convex/Concave Figures 1 element
- Classifying Triangles by Sides 1 element
- Classifying Triangles by Angles 1 element
- Parts of a Right Triangle 1 element

- Seven Triangles of Reality (Types of Triangles) 1 element
- Six Types of Quadrilaterals 1 element
- Parts of Quadrilateral 1 element
- Regular Polygons 3 elements
- Irregular Polygons 1 element
- Circle as a Special Polygon 1 element
- Geometry: Perimeter and Area 9 Lesson/Materials
- Understanding Perimeter of Plane Figures 1 element
- Perimeter of Squares 1 element
- Perimeter of Rectangles 1 element
- Perimeter of Triangles 1 element
- Perimeters of Regular Polygons 1 element
- Understanding Area of Plane Figures 1 element
- Areas with Concrete Materials: Square 1 element
- Areas with Concrete Materials: Rectangle 1 element
- Areas with Concrete Materials: Parallelogram 1 element
- Geometry: Measuring Angles of Polygons 1 Lesson/Material
- Using a Compass 1 element
- Geometry: Solid Figures 5 Lesson/Materials
- Geometric Solids: Plane Figures vs. Solids (2-D vs. 3-D) 1 element
- Geometric Solids: Cube, Sphere, Cylinder, Cone 3 elements
- Geometric Solids: Similarities/Differences 1 element
- Geometric Solids: Constructing Solid Figures 1 element
- Flat and Curved Surfaces 1 element

Second Grade

Art, Music and Movement

Basic Art Skills 2 Lesson/Materials

- Developmental Stages in Art 1 Lesson/Material
- Basic Art Activities 7 Lesson/Materials
- Elements of Art 10 Lesson/Materials
- Exploring Art Materials and Techniques 11 Lesson/Materials
- Identifying Different Forms of Art 9 Lesson/Materials
- Creating Different Forms of Art 10 Lesson/Materials
- Ancient Art 6 Lesson/Materials
- Artists and Their Work 14 Lesson/Materials
- Forms and Sounds of Musical Instruments 2 Lesson/Materials
- Music Theory with the Musical Bells 9 Lesson/Materials
- Music Theory with the Tone Bars 7 Lesson/Materials
- Types of Music 7 Lesson/Materials
- Musicians and Their Work 2 Lesson/Materials
- Creative Movement 5 Lesson/Materials

Cosmic Studies

- Laws of the Universe Experiments 22 Lesson/Materials
- First Great Lesson: Creation of the Universe 9 Lesson/Materials
- Second Great Lesson: The Coming of Life 21 Lesson/Materials
- Third Great Lesson: The Coming of Humans 8 Lesson/Materials

Geography

- The Earth 12 Lesson/Materials
- Mapping: The World 8 Lesson/Materials
- Mapping: The Continents (Puzzle Maps) 35 Lesson/Materials

- Mapping Skills: Introduction to Map Reading 8 Lesson/Materials
- Mapping: The Continents (Pin Maps) 6 Lesson/Materials
- Cultural Geography 10 Lesson/Materials
- Traditional American and International Holidays and Celebrations 41 Lesson/Materials
- Mapping Skills: Map Reading 4 Lesson/Materials
- Mapping Skills: Directions and the Town Game 3 Lesson/Materials
- Mapping Skills: Interpreting Symbols, Distance, and Directions 4 Lesson/Materials
- Mapping Skills: Geographical Features, Latitude and Longitude 5 Lesson/Materials
- Mapping Skills: Using an Atlas 6 Lesson/Materials
- Mapping Skills: Map Making 7 Lesson/Materials
- Geographical Features of the World 5 Lesson/Materials
- Climates and Environments 12 Lesson/Materials
- World Capitals and Famous Buildings of the World 8 Lesson/Materials
- Regions of the Country in Which We Live 9 Lesson/Materials
- Impressionistic Charts 1 Lesson/Material

History

- Exploring Concepts of Time 2 Lesson/Materials
- Telling Time on a Clock 1 Lesson/Material
- Time Zones and Calendars 2 Lesson/Materials
- Personal and Family Time Lines 2 Lesson/Materials
- Early Humans 7 Lesson/Materials
- Researching Historical Civilizations

Practical Life

- Care of Person: First Aid/Safety 3 Lesson/Materials
- Care of Person: Health and Wellness 10 Lesson/Materials

- Grace and Courtesy: Intrapersonal Skills 8 Lesson/Materials
- Grace and Courtesy: Interpersonal Skills 1 Lesson/Material
- Meals and Food Preparation 4 Lesson/Materials
- Classroom Skills 4 Lesson/Materials
- Personal Responsibility: General Safety and Security 2 Lesson/Materials
- Personal Responsibility: Care of Possessions 3 Lesson/Materials
- Personal Responsibility: Organizational Skills 3 Lesson/Materials
- Going Out: Class or Small Group Trips 3 Lesson/Materials

Science

- Physical Properties of Substances 8 Lesson/Materials
- Introduction and Exploration of Physical Principles 19 Lesson/Materials
- Being a Scientist: Measuring and Instruments 8 Lesson/Materials
- Being a Scientist: Observing and Recording 8 Lesson/Materials
- Being a Scientist: Conducting Investigations 8 Lesson/Materials
- Being a Scientist: Applying Knowledge 1 Lesson/Material
- Exploring Nature 5 Lesson/Materials
- Classifications of Plants and Animals 12 Lesson/Materials
- Introduction to Botany and Zoology 18 Lesson/Materials
- Introduction to Chemistry 10 Lesson/Materials
- Chemistry: Atoms, Elements and Compounds 1 Lesson/Material
- Energy 4 Lesson/Materials
- Technology 9 Lesson/Materials
- Astronomy 3 Lesson/Materials
- Earth Science 5 Lesson/Materials
- Zoology 24 Lesson/Materials
- Botany 33 Lesson/Materials
- Ecology 3 Lesson/Materials

Language Arts

- Speaking and Listening 10 Lesson/Materials
- Following Spoken Directions 2 elements
- Listening to Stories: Asking and Answer Questions (Lower Elementary) 1 element
- Listening to Stories: Vocabulary (Lower Elementary) 0 elements
- Listening to Stories: Main Ideas and Summaries (Lower Elementary) 1 element
- Formal and Informal Conversation Skills (Lower Elementary) 4 elements
- Story Telling (Primary) 1 element
- Story Telling (Lower Elementary) 1 element
- Reciting from Memory (Lower Elementary) 2 elements
- Sharing News (Lower Elementary) 1 element
- Presenting Spoken Information (Lower Elementary) 0 elements
- **Letter Sounds** 2 Lesson/Materials
- Sandpaper Letters (Capitals) 2 elements
- Sandpaper Letters (Capitals and Lowercase) 1 element
- Beginning Handwriting 5 Lesson/Materials
- Metal Insets: Single Outline 1 element
- Metal Insets: Double Outline 1 element
- Metal Insets: Turning the Shape 3 elements
- Metal Insets: Two Contrasting Insets 1 element
- Sorting and Writing Ascending and Descending Letters 3 elements
- Beginning Reading: Short Vowels 1 Lesson/Material
- Puzzle Words / Sight Words (Set 1: Reading, Spelling, Writing) 3 elements
- Beginning Reading: Consonant Blends and Digraphs 3 Lesson/Materials
- Word Lists (Initial and Ending Triple Blends) 2 elements
- Secret Messages or Sound Boxes (Consonant Blends and Digraphs) 2 elements
- Activity Words (Consonant Blends and Digraphs) 1 element
- Beginning Reading: Long Vowels and Phonograms 26 Lesson/Materials

- Phonograms (Key Sounds) "Long a" /ai/ (/ay/, /ei/) 3 elements
- Phonograms (Key Sounds) "Long e" /ee/ (/ey/, /ea/) 3 elements

- Phonograms (Key Sounds) "Long i" /ie/ (/igh/, /y/) 3 elements
- Phonograms (Key Sounds) "Long o" /oa/ (/oe/, /ow/) 3 elements
- Phonograms (Key Sounds) "Long u" /ue/ (/ou/, /ui/) 2 elements
- Phonograms (Key Sounds) Two Sound Phonemes /ou/, /oy/ 5 elements
- Phonograms (Key Sounds) "Bossy R-Phonograms" /er/, /ar/, /or/ 7 elements
- Phonograms (Key Sounds) "Short o" /au/ 3 elements

- Phonograms (Key Sounds) "Short and Long oo" /oo/ 3 elements
- Phonograms (Key Sounds) "Short u" /ou/ 3 elements
- Phonograms (Key Sounds) /sh/ and /ch/ 5 elements
- Phonograms (Key Sounds) /ph/, /gh/, /qu/ 4 elements
- Phonograms (Key Sounds) Soft Sounds of /c/ and /g/ 3 elements
- Phonograms (Key Sounds) Silent Letters /b/, /d/, /g/, /h/, /t/ 6 elements
- Phonograms (Key Sounds) Endings /ed/, /ies/ 3 elements
- Phonograms (Key Sounds) Endings /en/, /ing/ 1 element
- Phonograms (Key Sounds) Endings /tion/, /sion/, /ture/ 4 elements
- Object Box 3: Objects/Pictures to Words (Long Vowel Sounds) 9 elements
- Object Box 3: Objects/Pictures to Words (Varied Phonograms) 2 elements
- Phonogram Dictionary 3 elements
- Puzzle Words / Sight Words (Set 2: Reading) 3 elements
- Puzzle Words / Sight Words (Set 2: Spelling) 2 elements
- Large Moveable Alphabet: Building Words (Phonograms) 1 element
- Reading Sentence Strips (Phonograms) 3 elements
- Reading Beginner Books (Phonograms) 1 element
- Phonogram Booklets: Reading and Dictation 2 elements
- Building Vocabulary 4 Lesson/Materials
- Classified Nomenclature Cards: Zoology 1 element
- Classified Nomenclature Cards: Geography 0 elements
- Classified Nomenclature Cards: Geometry 0 elements
- Classified Nomenclature Cards: Botany 1 element

- Grammar: Parts of Speech (Miniature Environment Activities/The Farm) 3 Lesson/Materials
- Detective Adjective Game 0 elements
- Adverbs: Logical Agreement 1 element
- Adverbs: Phrase Strips (Symbolizing Phrases) 1 element
- Grammar: Parts of Speech 16 Lesson/Materials
- Noun Games 3 elements
- Noun-Article Games 2 elements
- Noun-Adjective Games 2 elements
- Verb Games 3 elements
- Preposition Games 1 element
- Verb-Adverb Games 1 element
- Pronoun Games 2 elements
- Conjunction Game 1 element
- Interjection Games 1 element
- Command Cards: Articles and Nouns 1 element
- Command Cards: Adjectives 1 element
- Command Cards: Verbs 1 element
- Command Cards: Prepositions 1 element
- Command Cards: Adverbs 1 element
- Command Cards: Pronouns 1 element
- Command Cards: Conjunctions 1 element
- Handwriting 5 Lesson/Materials
- Print: Lower and Upper-case Letters 2 elements
- Print: Spacing of Letters and Words 2 elements
- Cursive: Lower and Upper-case Letters 2 elements
- Cursive: Spacing of Letters and Words 2 elements
- Cursive Writing 1 element
- Writing Mechanics: Capitalization and Punctuation 7 Lesson/Materials
- Capitalization: Initial Words in Sentences 1 element
- Capitalization: Proper Nouns / Pronouns 4 elements
- Punctuation: Periods (End of Sentences, Abbreviations) 1 element

- Punctuation: Question Marks and Exclamations 4 elements
- Punctuation: Apostrophe (Possession) 2 elements
- Punctuation: Apostrophe (Contractions) 1 element
- Punctuation: Comma 1 element
- Grammar: Sentence Elements and Analysis 13 Lesson/Materials
- Grammar Box 2: Articles and Nouns 2 elements
- Grammar Box 3: Adjectives 3 elements
- Grammar Box 4: Verbs 1 element
- Grammar Box 5: Prepositions 1 element
- Grammar Box 6: Adverb 1 element
- Grammar Box 7: Pronouns 2 elements
- Grammar Box 8: Conjunctions 1 element
- Grammar Box 9: Interjections 1 element
- Sentence Analysis Charts 1 and 2 2 elements
- Sentence Analysis Boxes 1 1 element
- Transitive and Intransitive Verbs 2 elements
- Conjugating Verbs: Simple Tenses 1 element
- Conjugating Verbs: Progressive Tenses 0 elements
- Word Study / Spelling 15 Lesson/Materials
- Compound Words 2 elements
- Prefixes 1 element
- Suffixes 2 elements
- Graphemes/Word Families/Root Words 1 element
- Antonyms / Opposites 1 element
- Synonyms 1 element
- Figurative Language: Similes and Metaphors 0 elements
- Figurative Language: Personification 0 elements
- Figurative Language: Alliteration, Assonance and Consonance 2 elements
- Figurative Language: Hyperbole 2 elements
- Figurative Language: Onomatopoeia 1 element
- Crossword Puzzles 1 element
- Spelling Words in Isolation and in Connected Text 1 element

- Dictionary Skills (Alphabetization, Syllables, Locating Words, Parts of Speech) 5 elements
- Using Dictionaries for Word Meanings and Spelling (Lower Elementary) 2 elements
- Picture Story Writing (Journals) 2 Lesson/Materials
- Noun Phrases and Simple Sentences 1 element
- Communicating with Drawings and/or Words 3 elements
- Writing Mechanics: Sentence and Paragraph Structure 7 Lesson/Materials
- Writing Complete Sentences 3 elements
- Composing Compound Sentences 3 elements
- Three Parts of a Paragraph 2 elements
- Organizing Writing into Paragraphs 3 elements
- Using Transition Words and Phrases Between Paragraphs 1 element
- Using Transition Words and Phrases Within Paragraphs 2 elements
- Indenting Paragraphs 2 elements
- Writing Process 15 Lesson/Materials
- Six Traits of Effective Writing 7 elements
- Using a Writer's Notebook (Lower Elementary) 2 elements
- Prewriting: Establishing a Purpose, Defining Audience and Organizing Thoughts 1 element
- Prewriting: Understanding and Applying Strategies (Graphical Organizers, Listing, Brainstorming) 6 elements
- Prewriting: Understanding and Applying Strategies (Mind-Mapping, Free-writing) 2 elements
- Drafting: Developing a Thesis Statement 1 element
- Drafting: Summarize Research Findings 1 element
- Drafting: Forming Sentences and Paragraphs 1 element
- Drafting: Does Your Draft Say What you Mean? 1 element
- Revising: Review for Clarity (Independently/Peer-Conferencing) 2 elements
- Revising: Making it Flow (Sentence Fluency) 0 elements
- Revising: Word Choice, Rearrange, Take Out/Add 1 element

- Proofreading/Editing: Independently/Peer-Conferencing (Lower Elementary) 1 element
- Producing and Publishing: Read Aloud to a Group or Creating a Hand-Written Book 2 elements
- Producing and Publishing: Shares in Printed or Digital Format 3 elements
- Introduction to Forms of Writing 4 Lesson/Materials
- Writing to Describe (Descriptive) 1 element
- Writing to Entertain (Narrative) 1 element
- Writing to Inform (Expository) 1 element
- Writing to Persuade (Persuasive) 1 element
- Descriptive Writing 7 Lesson/Materials
- Elements: Vivid Sensory Details (Lower Elementary) 4 elements
- Elements: Figurative Language (Lower Elementary) 1 element
- Elements: Main Impression or "Mood" (Lower Elementary) 2 elements
- Elements: Careful Wording with Strong Verbs (Lower Elementary) 2 elements
- Types: Description of a Person Essay (Lower Elementary) 1 element
- Types: Description of a Place Essay (Lower Elementary) 1 element
- Types: Description of an Object Essay (Lower Elementary) 1 element
- Narrative Writing 8 Lesson/Materials
- Elements: Setting (Lower Elementary) 7 elements
- Elements: Character (Lower Elementary) 4 elements
- Elements: Plot (Lower Elementary) 4 elements
- Elements: Conflict (Lower Elementary) 3 elements
- Elements: Resolution (Lower Elementary) 5 elements
- Types: Personal Narrative (Lower Elementary) 1 element
- Types: Biographical Narrative (Lower Elementary) 1 element
- Types: Fictional Narrative (Lower Elementary) 1 element
- Expository Writing 8 Lesson/Materials
- Elements: Topic Sentences and Thesis Statements (Lower Elementary) 2 elements
- Elements: Transitions (Lower Elementary) 0 elements

- Elements: 4 E's - Examples, Explanations, Evidence, Elaboration (Lower Elementary) 2 elements
 - Elements: Conclusion (Lower Elementary) 2 elements
 - Types: Informational Essay (Lower Elementary) 1 element
 - Types: Procedural Essay (Lower Elementary) 3 elements
 - Types: Compare/Contrast Essay (Lower Elementary) 3 elements
 - Types: Research Projects (Reports, Presentations, etc) (Lower Elementary) 1 element
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- **Persuasive Writing** 7 Lesson/Materials
 - Elements: Introduction with Clear Position Statement (Lower Elementary) 2 elements
 - Elements: Audience and Purpose (Lower Elementary) 2 elements
 - Elements: Careful Wording - Signal Words (Lower Elementary) 1 element
 - Elements: Evidence to Support the Position (Lower Elementary) 1 element
 - Elements: Conclusion Restating the Topic and Main Points (Lower Elementary) 1 element
 - Types: Opinion Essay (Lower Elementary) 3 elements
 - Types: Problem/Solution Essay (Lower Elementary) 3 elements
 - **Creative Writing** 19 Lesson/Materials
 - Elements: Point of View (Lower Elementary) 2 elements
 - Elements: Theme (Lower Elementary) 2 elements
 - Elements: Setting (Lower Elementary) 4 elements
 - Elements: Character (Lower Elementary) 4 elements
 - Elements: Plot (Lower Elementary) 4 elements
 - Elements: Conflict (Lower Elementary) 4 elements
 - Elements: Resolution (Lower Elementary) 4 elements
 - Types: Short Stories (Primary) 2 elements
 - Types: Short Stories (Lower Elementary) 1 element
 - Types: Informal Letters (Primary) 1 element
 - Types: Informal Letters (Lower Elementary) 1 element
 - Types: Thank You Letters (Primary) 1 element
 - Types: Thank You Letters (Lower Elementary) 1 element

- Types: Poems (Haiku, Cinquain, Diamante, Rhyming) 3 elements
- Types: Product Review (Book, Movie, Toy, etc.) (Lower Elementary) 1 element
- Types: Formal Letters (Primary) 1 element
- Types: Formal Letters (Lower Elementary) 1 element
- Types: Plays 2 elements
- Types: Newspaper, Newsletter or Magazine Article (Lower Elementary) 1 element
- **Research Skills** 6 Lesson/Materials
 - Identifying and Accessing Sources of Information 1 element
 - Using Encyclopedias 4 elements
 - Using Text Features (Table of Contents, Index, Glossary) 0 elements
 - Using the Internet 5 elements
 - Using Multiple Sources (Cross Referencing) 1 element
 - Collecting Information 3 elements
- **Reading and Understanding Literature: Elements and Skills** 18 Lesson/Materials
 - Element: Setting (Lower Elementary) 0 elements
 - Element: Characters (Lower Elementary) 1 element
 - Element: Main Events (Lower Elementary) 1 element
 - Element: Conflict / Problem and Solution (Lower Elementary) 0 elements
 - Element: Point of View (Lower Elementary) 1 element
 - Element: Illustrations and Multimedia (Lower Elementary) 1 element
 - Element: Features and Organization of Various Types of Literature (Lower Elementary) 1 element
 - Skill: Reading for Various Purposes (Enjoyment, Information) 4 elements
 - Skill: Determining Type of Text (Literature or Informational/Fiction or Non-fiction) 1 element
 - Skill: Determining Type of Literature (Various Genres) 3 elements
 - Skill: Listening Comprehension - Read Alouds (Lower Elementary) 1 element
 - Skill: Predicting (Lower Elementary) 1 element

- Skill: Asking Questions (Lower Elementary) 1 element
- Skill: Answering Questions (Lower Elementary) 1 element
- Skill: Making Connections (Lower Elementary) 0 elements
- Skill: Retelling and Determining Central Message (Lower Elementary) 1 element
- Skill: Comparing and Contrasting (Characters, Books in a Series, Stories) (Lower Elementary) 1 element
- Skill: Fluency (Expression, Choral Reading, Pace) (Lower Elementary) 4 elements

- Reading and Understanding Literature: Applications 24 Lesson/Materials
- Picture Books: Predicting (Lower Elementary) 1 element
- Picture Books: Text Features (Lower Elementary) 0 elements
- Picture Books: Story Elements (Lower Elementary) 1 element
- Picture Books: Asking and Answering Questions (Lower Elementary) 1 element
- Picture Books: Retelling and Recounting (Lower Elementary) 2 elements
- Poetry: Studying Poets 4 elements
- Poetry: Words and Phrases (Lower Elementary) 2 elements
- Poetry: Fluency (Lower Elementary) 2 elements
- Poetry: Ideas and Structure (Lower Elementary) 0 elements
- Folk Tales and Fables: Retelling and Summarizing (Lower Elementary) 1 element
- Folk Tales and Fables: Fluency (Lower Elementary) 0 elements
- Folk Tales and Fables: Comparing and Contrasting (Lower Elementary) 1 element
- Folk Tales and Fables: Characters (Lower Elementary) 0 elements
- Folk Tales and Fables: Illustrations and Multimedia (Lower Elementary) 0 elements
- Myths: Retelling and Summarizing (Lower Elementary) 1 element
- Myths: Analyzing Words and Phrases (Lower Elementary) 0 elements
- Classic Literature: Using Historical Context 0 elements
- Classic Literature: Comparing and Contrasting 0 elements

- Classic Literature: Point of View 0 elements
- Classic Literature: Analyzing Words 1 element
- Classic Literature: Illustrations and Multimedia 0 elements
- Classic Literature: Literature Discussions 0 elements
- Dramatic Interpretation (Lower Elementary) 0 elements
- Literature Circles (Lower Elementary) 4 elements
- Reading and Understanding Informational Texts: Elements and Skills 13

Lesson/Materials

- Element: Point of View (Lower Elementary) 2 elements
- Element: Reasons and Evidence (Lower Elementary) 0 elements
- Element: Visual / Text Features and Organization (Lower Elementary) 2 elements
- Skill: Reading for Various Purposes (Research, Information, Enjoyment) 4 elements
- Skill: Determining Type of Text (Literature/Informational or Fiction/Non-fiction) 1 element
- Skill: Determining Type of Informational Texts (Expository, Persuasive, Narrative) 3 elements
- Skill: Listening Comprehension - Read Alouds (Lower Elementary) 0 elements
- Skill: Predicting (Lower Elementary) 0 elements
- Skill: Asking Questions (Lower Elementary) 1 element
- Skill: Answering Questions (Lower Elementary) 1 element
- Skill: Making Connections (Lower Elementary) 1 element
- Skill: Retelling and Determining Main Idea (Lower Elementary) 1 element
- Skill: Comparing and Contrasting Information (Lower Elementary) 2 elements

Reading and Understanding Informational Texts: Applications 12

Lesson/Materials

- Picture Books: Predicting (Lower Elementary) 0 elements
- Picture Books: Text Features (Lower Elementary) 0 elements

- Picture Books: Asking and Answering Questions (Lower Elementary) 1 element
- Picture Books: Retelling (Lower Elementary) 1 element
- Magazines and Newspapers: Text and Visual Features (Lower Elementary) 2 elements
- Magazines and Newspapers: Main Ideas (Lower Elementary) 1 element
- Magazines and Newspapers: Reasons and Evidence (Lower Elementary) 0 elements
- Biographies: Main Ideas and Summarizing (Lower Elementary) 2 elements
- Biographies: Making Connections (Lower Elementary) 0 elements
- Biographies: Point of View (Lower Elementary) 1 element , Year Cycles: 1st, 2nd, 3rd Plan this lesson Record this lesson
- Analysis of Advertisements: Visual Media Comprehension (Lower Elementary) 0 elements
- Inquiry Circles (Lower Elementary) 3 elements
- Recording Levels for Reading and Vocabulary Skills 5 Lesson/Materials
- Reading: Reading with Purpose and Understanding 1 element
- Reading: Literature 1 element
- Reading: Informational Texts 1 element
- Vocabulary: Inferencing about the Meaning of Words in Context 1 element
- Vocabulary: Using Grade-Appropriate Vocabulary 1 element

Mathematics

- Patterns, Number Rolls, and Skip Counting 2 Lesson/Materials
- Short Bead Chains: Counting by Units and Skip Counting 9 elements
- Long Bead Chains: Counting by Units and Skip Counting 9 elements
- Comparing, Rounding and Estimating Values 3 Lesson/Materials
- Comparing Values: Equal, Less Than, Greater Than 0 elements
- Rounding to the Nearest 10s, 100s, and 1000s 3 elements
- Estimating Values 2 elements
- Place Value, Large Numbers and Expanded Notation 4 Lesson/Materials
- Wooden Hierarchical Material: Quantities Greater than 9,999 2 elements

- Writing Numerals Greater than 9,999 1 element
- Names of Number Families (Infinity Street) 3 elements
- Expanded Notation of Numbers 2 elements
- Operations: Static Addition 1 Lesson/Material
- Stamp Game: Up to 4-Digit Addends 1 element
- Operations: Dynamic Addition 2 Lesson/Materials
- Golden Beads: Up to 2- and 4-Digit Addends 1 element
- Stamp Game: Up to 4-Digit Addends 1 element
- Memorization of Math Facts: Addition 12 Lesson/Materials
- Positive (Addition) Snake Game 1 element
- Bead Bars: Addition of Two Addends 1 element
- Bead Bars: Addition of Triple Addends 1 element
- Bead Bars: Solving for Missing Addends 1 element
- Addition Problems with Parentheses 1 element
- Addition without Manipulatives: Two Addends 1 to 10 1 element
- Addition without Manipulatives: Three Addends 1 to 10 1 element
- Addition without Manipulatives: Missing Addends 1 element
- Addition without Manipulatives: Any Value (+10) 1 element
- Addition without Manipulatives: Any Value (+100) 1 element
- Comparing Equations: Equal, Less Than, Greater Than 1 element
- Addition Story Problems 1 element
- Passage to Abstraction: Addition 10 Lesson/Materials
- Small Bead Frame: Up to 4-Digits (Static) 1 element
- Large Bead Frame: Up to 7-Digits (Static) 1 element
- Golden Mat: Up to 7-Digits (Static) 0 elements
- Dot Game: Up to 4-Digits (Dynamic) 1 element
- Small Bead Frame: Up to 4-Digits (Dynamic) 1 element
- Large Bead Frame: Up to 7-Digits (Dynamic) 1 element
- Golden Mat: Up to 7-Digits (Dynamic) 2 elements
- Abstraction without Manipulatives: Up to 4-Digits 1 element
- Abstraction without Manipulatives: Up to 7-Digits 1 element
- Abstraction without Manipulatives: 3 Multi-Digit Addends 1 element

- Operations: Static Subtraction 1 Lesson/Material
- Stamp Game: Up to 4-Digits 1 element
- Operations: Dynamic Subtraction 1 Lesson/Material
- Stamp Game: Up to 4-Digits 1 element
- Memorization of Math Facts: Subtraction 11 Lesson/Materials
- Negative (Subtraction) Snake Game 1 element
- Bead Bars: Subtraction of Two Digits 1 element
- Bead Bars: Solving for Unknown Addend (Inverse Relationship) 2 elements
- Subtraction Problems with Parentheses 1 element
- Subtraction with Number Lines 1 element
- Subtraction without Manipulatives: Two Values 1 to 18 1 element
- Subtraction without Manipulatives: Unknown Addends 1 element
- Subtraction without Manipulatives: Any Value (-10) 1 element
- Subtraction without Manipulatives: Any Value (-100) 1 element
- Comparing Equations: Equal, Less Than, Greater Than 1 element
- Subtraction Story Problems 1 element
- Passage to Abstraction: Subtraction 7 Lesson/Materials
- Small Bead Frame: Up to 4-Digits (Static) 1 element
- Large Bead Frame: Up to 7 Digits (Static) 1 element
- Small Bead Frame: Up to 4-Digits (Dynamic) 1 element
- Large Bead Frame: Up to 7 Digits (Dynamic) 1 element
- Golden Mat: Up to 7-Digits (Dynamic) 1 element
- Abstraction without Manipulatives: Up to 4-Digits 1 element
- Abstraction without Manipulatives: Up to 7-Digits 1 element
- Operations: Multiplication (1- and 2-Digit Multipliers) 3 Lesson/Materials
- Stamp Game: Up to 4-Digits x 1-Digit Multiplier 1 element
- Golden Beads: Up to 4-Digits x 2-Digit Multiplier 1 element
- Stamp Game: Up to 4-Digits x 2-Digit Multiplier 1 element
- Memorization of Math Facts: Multiplication 27 Lesson/Materials
- Multiplication Charts: 1 (Control Chart) 1 element
- Multiplication Charts: 2 (Commutative Control Chart) 1 element
- Multiplication Charts: 3 (Finger Chart) 1 element

- Multiplication Charts: 4 (Half Chart) 1 element
 - Multiplication Charts: 5 (Blank Chart) 1 element
 - Multiplication Bingo Games: 1 - 3 3 elements
 - Short Bead Chains: Building Squares of 1 to 10 1 element
 - Short and Long Bead Chains: Multiples of 1 to 10 1 element
 - Bead Bar Layouts: Multiples of 1 to 10 1 element
 - Multiplication Snake Game 1 element
 - Oral Memorization Games 1 element
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- Multiplication with Number Lines (Repeat Addition) 1 element
 - Bead Bars: Arrays (Ways to Build a Product) 1 element
 - Bead Bars: Multiplication of Two Factors 1 element
 - Bead Bars: Multiplication of Three Factors 1 element
 - Multiplication Problems with Parentheses 1 element
 - Commutative Property of Multiplication 1 element
 - Associative Property of Multiplication 1 element
 - Distributive Property of Multiplication (Binomial Presentation) 1 element
 - Distributive Property of Multiplication (Trinomial Presentation) 1 element
 - Pythagoras Board 1 element
 - Decanomial: Vertical Presentation 1 element
 - Decanomial: Horizontal Presentation 1 element
 - Multiplication without Manipulatives: Any Value ($\times 0$) 1 element
 - Multiplication without Manipulatives: Any Value ($\times 1$) 1 element
 - Comparing Equations: Equal, Less Than, Greater Than 1 element
 - Multiplication Story Problems 1 element
 - Passage to Abstraction: Multiplication by One-Digit Multipliers 6

Lesson/Materials

- Small Bead Frame: Up to 4-Digits 2 elements
- Large Bead Frame: Up to 7-Digits 1 element
- Peg Board: Up to 7-Digits 1 element
- Golden (Flat) Bead Frame: Up to 7-Digits 1 element
- Checkerboard: Up to 7-Digits 1 element
- Golden Mat: Up to 7-Digits 1 element

- Preparation for Larger Multiplication 2 Lesson/Materials
- Multiplication by 10s, 100s, 1000s, with Golden Beads 3 elements
- Multiplication by 10s, 100s, 1000s, with the Small Bead Frame 3 elements
- Operations: Division (1-Digit Divisors) 4 Lesson/Materials
- Golden Beads: 1-Digit Divisor without Remainder 1 element
- Stamp Game: 1-Digit Divisor without Remainder 1 element
- Golden Beads: 1-Digit Divisor with Remainder 1 element
- Stamp Game: 1-Digit Divisor with Remainder 1 element
- Operations: Division (2-and 3-Digit Divisors) 4 Lesson/Materials
- Golden Beads: 2-Digit Divisor without Remainder 0 elements
- Stamp Game: 2-Digit Divisor without Remainder 0 elements
- Golden Beads: 2-Digit Divisor with Remainder 1 element
- Stamp Game: 2-Digit Divisor with Remainder 0 elements
- Memorization of Math Facts: Division 13 Lesson/Materials
- Unit Division Bead Board 1 element
- Division Charts: 1 (Finger Chart) 1 element
- Division Charts: 2 (Blank Chart) 1 element
- Division Charts: 3 (Control Chart with Remainders) 1 element
- Division Bingo Games: 1-3 0 elements
- Division with Number Lines (Repeat Subtraction) 1 element
- Card Sets: Solving for Unknowns (Inverse Relationship) 0 elements
- Division Problems with Parentheses 1 element
- Division without Manipulatives: Any Value ($\div 1$) 1 element
- Division without Manipulatives: Any Value ($\div 10$) 1 element
- Division without Manipulatives: Any Value ($\div 100$) 1 element
- Comparing Equations: Equal, Less Than, Greater Than 1 element
- Distributive and Grouping Division Story Problems 2 elements
- Passage to Abstraction: Division (1-, 2-, and 3-Digit Divisors) 2 Lesson/Materials
- Small Bead Frame: 1 Digit Divisor with or without Remainder 1 element
- Large Bead Frame: 1 Digit Divisor with or without Remainder 1 element
- Creative Problem Solving Methods 9 Lesson/Materials

- Simplifying Through Parallel Problems 1 element
 - Simplifying Through Patterns 1 element
 - Using Drawing or Diagrams (Venn Diagrams) 1 element
 - Using Lists or Tables 2 elements
 - Guess and Check Method 1 element
 - Working Backwards 1 element
 - Acting Out a Scenario 1 element
 - Altering One's Point of View or Perspective 1 element
-
- Logical Reasoning 1 element
 - Time and Money 17 Lesson/Materials
 - Equivalencies Between Units of Time 3 elements
 - Measuring and Counting Units of Time 1 element
 - Converting Between Units of Time 2 elements
 - Comparing Time: Equal, Less/Greater Than 2 elements
 - Estimating with Units of Time 1 element
 - Rounding Units of Time 1 element
 - Time Story Problems 1 element
 - Practical Applications of Units of Time 1 element
 - Equivalencies Between Units of Money 2 elements
 - Counting Units of Money 1 element
 - Converting Between Units of Money 1 element
 - Comparing Amounts of Money: Equal, Less/Greater Than 2 elements
 - Estimating with Units of Money 1 element
 - Rounding Units of Money 4 elements
 - Operations with Money and Making Change 2 elements
 - Money Story Problems 1 element
 - Practical Applications of Units of Money 1 element
 - Measurement 35 Lesson/Materials
 - Length: Imperial Units of Measurement (Inch, Foot, Yard) 1 element
 - Length: Metric Units of Measurement (Centimeter, Meter) 1 element
 - Length: Equivalencies Between Units (12 inches = 1 foot) 3 elements
 - Length: Measuring with a Ruler, Yard Stick, Meter Stick 1 element

- Length: Converting Between Units of Measurement 3 elements
- Length: Using a Conversion Table 0 elements
- Length: Comparisons: Equal, Less/Greater Than 2 elements
- Length: Estimating in Various Units 1 element
- Length: Rounding in Various Units 1 element
- Length: Story Problems 1 element
- Length: Practical Applications 1 element
- Weight: Imperial Units of Measurement (Ounces, Pounds) 1 element
- Weight: Metric Units of Measurement (Grams, Kilograms) 1 element
- Weight: Equivalencies Between Units (16 ounces = 1 Pound) 2 elements
- Weight: Measuring with a Scale/Balance 1 element , Year Cycles: 2nd, 3rd Plan this lesson Record this lesson
- Weight: Converting Between Units of Measurement 3 elements
- Weight: Comparisons: Equal, Less/Greater Than 2 elements
- Weight: Estimating in Various Units 1 element
- Weight: Rounding in Various Units 1 element
- Weight: Solving Story Problems 1 element
- Weight: Practical Applications 1 element
- Volume: Imperial Units of Measurement (Cup, Pint, Quart) 1 element
- Volume: Metric Units of Measurement (Milliliter, Liter) 1 element
- Volume: Equivalencies Between Units (4 Quarts = 1 Gallon) 2 elements
- Volume: Measuring with Scaled Containers 1 element
- Volume: Converting Between Units of Measurement 3 elements
- Volume: Comparisons: Equal, Less/Greater Than 2 elements
- Volume: Estimating in Various Units 1 element
- Volume: Rounding in Various Units 1 element
- Volume: Solving Story Problems 1 element
- Volume: Practical Applications 1 element
- Temperature: Units and Scales of Measurement (F and C) 1 element
- Temperature: Measuring with a Thermometer (F and C) 1 element
- Temperature: Comparisons: Equal, Less/Greater Than 2 elements
- Temperature: Estimating Temperatures (F and C) 1 element

- Exponents as Powers 1 Lesson/Material
- Understands Exponents as Powers 1 element
- Multiples, Factors and Prime Numbers 2 Lesson/Materials
- Introduction to Multiples with Concrete Materials 1 element
- Chart of Multiples 1 element
- Understanding Fractions 7 Lesson/Materials
- Fractions in Everyday Life: Pizzas, Pies and Chocolate Bars 1 element
- Fraction Circles and Symbols 1 element
- Fraction Skittles and Symbols 1 element
- Fraction Notation and Language 3 elements
- Fraction Circles: Recognizing Equivalent Fractions 1 element
- Fraction Circles: Chart of Equivalents 1 element
- Fraction Circle Box and Task Cards 1 element
- Fraction Operations: Same Denominators 4 Lesson/Materials
- Addition: Fraction Circles 1 element
- Addition: Fraction Circle Box Pieces 1 element
- Subtraction: Fraction Circles 1 element
- Subtraction: Fraction Circle Box Pieces 1 element
- Data, Statistics and Probability 10 Lesson/Materials
- Reading Graphs: Pictographs, Pie Charts 2 elements
- Reading Graphs: Bar Graphs, Dot Plots 2 elements
- Collecting Data (Observations/Surveys) 2 elements
- Introduction to Statistics: Questions with Variable Answers 1 element
- Introduction to Statistics: Mean (Average) 2 elements
- Preparing Graphs with Whole Units 4 elements
- Preparing Graphs with Fractional Units 4 elements
- Understanding Probabilities 1 element
- Probability = Specific Outcome/Possible Outcomes 1 element
- Probabilities with Concrete Materials 1 element
- Inequalities 3 Lesson/Materials
- Reviewing the Symbols for Equal, Greater Than, Less Than 1 element
- Greater Than Or Equal To and Less Than Or Equal To 1 element

- Comparing Equations with Multiple Operations 1 element
- Roman Numerals 5 Lesson/Materials
- Introduction to the Uses of Roman Numerals 1 element
- Unit Roman Numerals (I and V, X) 2 elements
- Tens Roman Numerals (X, L, C) 2 elements
- Hundreds Roman Numerals (C, D, M) 1 element
- Roman Numerals and Cardinal Numerals 2 elements
- Geometry: Exploration of Shapes 7 Lesson/Materials
- Geometric Cabinet and Matching Card Set: Curved Shapes 3 elements
- Geometric Cabinet and Matching Card Set: Quadrilaterals 3 elements
- Rectangle Box 1: Identifying Basic Quadrilaterals 1 element
- Rectangle Box 2: Sides of Triangles and Building Figures 1 element
- Rectangle Box 2: Obverse/Reverse (Heads and Tails) 0 elements
- Rectangle Box 2: Triangles as Constructors of Polygons 2 elements
- Triangular Box: Forming Stars (12, 6, and 4 Points) 1 element
- Geometry: Lines and Angles 18 Lesson/Materials
- Understanding Points, Line, Planes, Solids 1 element
- Straight and Curved Lines 1 element
- Parts of a Straight Line 1 element
- Horizontal, Vertical and Oblique Lines 1 element
- Divergent and Convergent Lines 1 element
- Parallel and Perpendicular Lines 1 element
- Intersecting Lines 1 element
- Concept of Symmetry 1 element
- Concept of an Angle 1 element
- Whole and Straight Angles 1 element
- Right, Acute, Obtuse and Reflex Angles 1 element
- Parts of an Angle 1 element
- Measuring Angles (Story of the Star) 1 element
- Measuring Angles with Montessori Protractor 1 element
- Measuring Angles with Regular Protractor 1 element
- Relationships Between Angles: Adjacent 1 element

- Relationships Between Angles: Complementary 1 element
- Relationships Between Angles: Supplementary 1 element
- Geometry: Polygons 12 Lesson/Materials
- Geometric Stick Box: Open/Closed Figures 1 element
- Geometric Stick Box: Convex/Concave Figures 1 element
- Classifying Triangles by Sides 1 element
- Classifying Triangles by Angles 1 element
- Parts of a Right Triangle 1 element
- Seven Triangles of Reality (Types of Triangles) 1 element
- Six Types of Quadrilaterals 1 element
- Parts of Quadrilateral 1 element
- Regular Polygons 2 elements
- Irregular Polygons 1 element
- Circle as a Special Polygon 1 element
- Parts of a Circle 1 element
- Geometry: Congruence, Similarity and Equivalence 7 Lesson/Materials
- Congruence, Similarity and Equivalence 1 element
- Introduction to the Fractional Squares 1 element
- Introduction to the Fractional Triangles 1 element
- Congruency, Equivalency and Similarity with the Fractional Squares 1 element
- Congruency, Equivalency and Similarity with the Triangular Box 1 element
- Congruency, Equivalency and Similarity with the Large Hexagon Box 1 element
- Congruency, Equivalency and Similarity with the Small Hexagon Box 1 element
- Geometry: Perimeter and Area 9 Lesson/Materials
- Understanding Perimeter of Plane Figures 1 element
- Perimeter of Squares 1 element
- Perimeter of Rectangles 1 element
- Perimeter of Triangles 1 element
- Perimeters of Regular Polygons 1 element

- Understanding Area of Plane Figures 1 element
- Areas with Concrete Materials: Square 1 element
- Areas with Concrete Materials: Rectangle 1 element
- Areas with Concrete Materials: Parallelogram 1 element
- Geometry: Measuring Angles of Polygons 2 Lesson/Materials
- Circle as a Special Polygon (Whole Angle) 1 element
- Using a Compass 1 element
- Geometry: Solid Figures 7 Lesson/Materials
- Geometric Solids: Plane Figures vs. Solids (2-D vs. 3-D) 1 element
- Geometric Solids: Cube, Sphere, Cylinder, Cone 4 elements
- Geometric Solids: Prisms, Ovoid, Ellipsoid 4 elements
- Geometric Solids: Square and Triangle-Based Pyramids 2 elements
- Geometric Solids: Similarities/Differences 1 element
- Geometric Solids: Constructing Solid Figures 1 element
- Flat and Curved Surfaces 1 element
- Geometry: The Coordinate Plane 2 Lesson/Materials
- Introduction to Coordinate Geometry 1 element
- Letter/Number Coordinate Grid Graphing 1 element

Wild Rose Montessori School Staff and Administration

The Wildflower Network Teacher/Administrator Model

The Wildflower Network model allows the Wild Rose adult leaders to be both teachers and administrators. Teachers experience great autonomy and empowerment. This allows Wild Rose to be flexible and responsive to the needs of the children, families and staff.

As part of the network, the teacher/administrators have the support of a group of gifted and experienced Montessori teachers, designers, artists and researchers. The teacher/administrators within the network regularly observe in each other's schools to give feedback and make suggestions. Additionally, opportunities at the media lab bring leading Montessori researchers and other education innovators into our community to share their work and observe in our schools.

While each school has the autonomy to make it's own administrative decisions, a weekly meeting of the heads and assistant heads of the network schools provides the opportunity for advice on educational and administrative challenges and the joint development of best practices.

Wild Rose Montessori School

Wild Rose Montessori School has three teacher/administrators. Additionally, Katelyn Shore is the president of the Wildflower Foundation.

Head of School - Castle O'Neill
Assistant Head of School – Katie Tremblay
President –Wildflower Network – Katelyn Shore

A finance committee made up of financially savvy parents, the founder of the network and the teacher/administrators supports the school in strategic planning and development. Harbor Compliance is working with us to establish 501c3 status with the federal government and has been contracted to keep Wild Rose in compliance with all non-profit requirements. We work with Central Source, www.centralsource.org, for bookkeeping and Jeannie Gorlovsky-Schepp of Alexander Aronson Finning is our CPA.

Teacher/Administrator Resumes

Castle O'Neill, Head of School

26 years of teaching children, 20 years of educating teachers, and 9 years of administration have given Castle O'Neill a firm grounding in all aspects of Montessori education. She is a national leader in the area of professional development, deeply engaged in the community's debate about the future of Montessori practice. Openness to the possibilities within the Montessori approach is evidenced by her experience with home-schooling her daughter and bringing Montessori education to under-served communities.

Administration

School Administration

2014 - Present. Head of School, Wild Rose Montessori School, Cambridge, MA

2012 – 2014. Program Director - Early Childhood and Toddler, Woodinville Montessori School, North Creek Campus, Bothell, WA

Day-to-Day Management of Five Classrooms, Curriculum Development, Mentoring and Consulting with Teachers, Problem Solving with Families, Parent Education, State Licensing, School Accreditation

2008 – 2012. Assistant Head of School, West End Montessori School, Richmond, VA

Day-to-Day Management of the School, Curriculum Development, Mentoring and

Consulting with Teachers, Problem Solving with Families, Parent Education, School

Marketing and Tours, State Licensing

2005 – 2007. Co-Creation of the Neighborhood Resource Center Montessori Preschool,

Richmond, VA (a sliding scale tuition school in a low income neighborhood)
Fundraising, Grant Writing, Marketing, Staffing, Licensing, Organizational Design, Environmental Design, Administration

Teacher Education Program Administration

2012 – 2014. Coordinator - Early Childhood, Infant/ Toddler Teacher Education, Director – Professional development, Montessori Education Institute of the Pacific Northwest, Bothell, WA

Coaching Adult Learners, Mentoring Instructors, Curriculum Design, Development of Professional Development Workshops, Marketing the Program, Accreditation

2006 – 2012. Founder, Director, VA Center for Montessori Studies, Richmond, VA

Creation and Initial Accreditation of Program, Coaching Adult Learners, Mentoring Instructors, Curriculum Design, Market and Present Professional Development Workshops, Market Program

Teaching

Educating Adults

2015. Course Instructor – VA center for Montessori Studies, Richmond, VA – Infant and Toddler

2012 – 2014. Course Instructor and Field Consultant - Montessori Education Institute of the Pacific Northwest, Bothell, WA - Early Childhood, Infant and Toddler

Courses – Montessori Philosophy, Child, Family, Community, Classroom Leadership, School Administration

2006 – 2012. Course Instructor and Field Consultant - VA Center for Montessori Studies, Richmond, VA -Early Childhood

Courses – Montessori Philosophy, Observation, Sensorial, History & Geography, Science, Classroom Leadership, Assistant Teacher Training

2004 – 2006. Course Instructor and Field Consultant - Institute for Advanced Montessori Studies, Silver Spring, MD - Early Childhood

Courses – Sensorial

2004 – 2006. Course Instructor and Field Consultant - North Carolina Center for Montessori Teacher Education, Raleigh, NC -Early Childhood

Course – History & Geography

1993 – 2004. Course Instructor and Field Consultant - VA Center for Montessori Teacher Education, Norfolk and Richmond, VA -Early Childhood

Courses – Sensorial, History & Geography, Science, Classroom Leadership

Teaching Children

Montessori Schools

2014 – 2015. Early Childhood and Elementary Teacher, Wild Rose Montessori Homeschooling Co-op, Cambridge, MA

2006 – 2012. Toddler Teacher, West End Montessori School, Richmond, VA

1997 – 2006. Early Childhood Teacher, West End Montessori School, Richmond, VA

1990 – 1995. Early Childhood Teacher, Richmond Montessori School, Richmond, VA

1989 – 1990. Early Childhood Teacher, The New School, Apex, NC

1986 – 1989. Early Childhood Teacher, Pioneer Valley Montessori School, Springfield, MA

1986 – 1989. Early Childhood Assistant Teacher & Intern, Southside Montessori School, Richmond, VA

Homeschooling

1995 – 2000. Instructor for Homeschoolers, ages 5 – 12, Richmond, VA

Designed and Taught Classes in Gardening, Natural History, Science, Geography

1995 – 1999. Homeschooled Daughter, from age 7–11, Richmond, VA

Homeschooled using Montessori and Other Methods

1995 -1997. Homeschooled Five Children, ages 5 – 8, Richmond, VA

Homeschooled using Montessori and Other Methods

Professional Development for Teachers and Teacher Educators

2012 – Present. Director of Professional Development - Woodinville Montessori School, Bothell, WA

Lead Faculty Meetings, Creation of Professional Development Experiences for Teachers, Dual Re-accreditation Committee Leader 2012 – Present.
Coordinator - Professional Development – Montessori Education Institute of the Pacific Northwest, Bothell, WA

Produce Workshops and Courses with National Education Specialists and Researchers

Boards & Committees

2011 – 2013. American Montessori Society Representative to the International Association for Montessori Educators Board

In conjunction with the Montessori Accreditation Council for Teacher Education, the IAME Board Produces an Annual Professional Development Symposium for Teacher Educators

2013 – 2015. Evaluator of Presentation Proposals for American Montessori Society Annual Conference

2010. AMS Early Childhood Core Materials and Activities List Committee

Accreditation Evaluation

2010 – Present. On-Site Teacher Education Program Evaluator for the Montessori Accreditation Council for Teacher Education (MACTE)

- Montessori Teacher Education Center, San Francisco Bay Area - Pensacola Campus
- Montessori Teacher Education Center, San Francisco Bay Area - West Covina, CA Campus
- Houston Montessori Center, Houston, Texas
- Capital College - Richmond, BC, Canada
- Center for Montessori Teacher Education, New York – Phoenix Campus
- Montessori Live, Venice, Florida

Presentations

2012. Presenter – International Association of Montessori Educators Annual Meeting “Follow the Garden - a Year of Outdoor Education at West End Montessori School”

2012. Workshop Presenter – VA Center for Montessori Studies Professional Development Series – “Encouraging Self-Discipline”

2011. Workshop Presenter – VA Center for Montessori Studies Professional Development Series – “Exploring the Montessori Toddler Environment”

2011 and 2012. Workshop Presenter – American Montessori Society Annual Conference, “Somewhere Over the Rain Barrel, Connecting Children to the Natural World”

1997. Workshop Presenter – VA Homeschoolers Association, “Montessori Math for the Homeschooler”

1996. Workshop Presenter – VA Homeschoolers Association, “Concrete Science and Geography Experiences for Children”

Education

2009. Positive Discipline Parent Educator Certification
Positive Discipline Association, San Antonio, Texas

2008. American Montessori Society Infant/Toddler Certification
Montessori Institute of Teacher Education, Wilmington, DE

1986. American Montessori Society Primary Certification
Virginia Commonwealth University, Richmond, VA

1984. B.S. Psychology
Virginia Commonwealth University, Richmond, VA

Katherine Tremblay, Assistant Head of School

Experience

Elementary Teacher, Assistant Head of School, Wild Rose Montessori Homeschooling Co-op 2014-2015

- Worked with a co-teacher/Head of school to plan and implement 1-2nd grade curriculum in-line with the Montessori sequence and philosophy.
- Worked with a co-teacher/Head of school to plan and develop Wild Rose Montessori School
- Managed calendars and schedules for home-schooling co-op
- Organized field trips for homeschooling co-op
- Participated in professional development opportunities at the MIT Media Lab and attended American Montessori Society Annual Conference
- Worked with other families in the co-op to develop family activities

Upper Elementary Co-Teacher: Cambridge Montessori School 2005-2014

- Worked with a co-teacher and Upper Elementary team to plan and implement 4-6th grade curriculum in-line with the Montessori sequence and philosophy.
- Tailored lessons according to students' interests and needs; created follow-up work consistent with skill and grade levels; tracked student progress.
- Responsible for teaching diverse topics, such as history, math, geometry, and language among mixed-age level groupings.
- Led and participated in parent meetings, teacher/parent/student conferences, as well as meetings with the Learning Center.
- Took part in Montessori training, as well as professional development workshops and conferences.

Upper Elementary Assistant Teacher: Cambridge Montessori School 2004-2005

- Provided classroom support for lead teacher and other classroom assistant.
- Led book groups and taught non-Montessori lessons.

5th Grade Teacher/2nd grade Maternity Leave Position: Watertown Public Schools 2003-2004

- Started in the fall as a fifth-grade part-time co-teacher in a public school classroom; responsible for teaching math, history and science topics.

- Took on an additional 5-month part-time second grade maternity leave position. Responsible for teaching math and science.
- Worked in collaboration with lead teachers in both 5th and 2nd grade classrooms.
- Created integrated units and curriculum-based activities.
- Participated and led parent-teacher conferences.

3rd Grade Assistant Teacher: Milton Academy
2002-2003

- One year assistant teaching position in at the third grade level.
- Worked in collaboration with lead teachers of both third grade classrooms to implement integrated curricula; took over in one classroom during a three-week paternity leave.
- Participated in professional development within the school.
- Assisted in implementation of technology, both during computer lab times and during an after school MIT Media Lab-run club.

Student Teacher: Brookline Public Schools
2001-2002

- One year internship in a fifth grade public school setting.
- Worked closely with team of fifth grade teachers and another intern to design, plan and implement curriculum across topics.
- Participated in and led parent-teacher conferences; tracked student progress.

Literacy Tutor: Americorps, Oakland, CA
2000-2001

- Worked individually with inner city first graders to support literacy in the classroom.
- Participated in literacy trainings.

Education

Montessori Elementary Teacher Training Collaborative (METTC)
2014-2015

Lexington, MA

6-9 Montessori Certification (AMS) – in process

Center for Montessori Teacher Education, New Rochelle, NY
2005-2006

9-12 Montessori Certification (AMS)

Simmons College, Boston MA
2001-2002

Master of Arts in Teaching (MAT) in Elementary Education
Massachusetts Teacher Certification Grades 1-6

Lewis and Clark College, Portland, OR
1993-1997

Bachelors Degree: French Language and Literature, and Psychology

Katelyn Shore, Teacher, President – Wildflower Network

Experience

2014 - Present	Wildflower Network and Foundation Foundation President	Cambridge, MA
2013 - 2015	Wildflower Montessori School Assistant Head of School and classroom teacher	Cambridge, MA
2012 - 2013	Cambridge Montessori School Director of Early Childhood Programs	Cambridge, MA
2012 -- Present	Northeast Montessori Training Institute Montessori Training Faculty	Beverly, MA
2007 - 2012	Cambridge Montessori School Lead Early Childhood Teacher	Cambridge, MA
2007 - 2012	Private Tutor	Cambridge, MA
2005 - 2007	Case Western Hospital, Dept. of Psychiatry Cleveland, OH Research Assistant	

Education

2005	Wellesley College BA Psychology BA Neuroscience
2008	Northeast Montessori Training Institute Montessori Credential: 3-6 year olds

Invited Talks

- 2013 Massachusetts General Hospital/Harvard Medical School
- 2013 Harvard Graduate School of Education
- 2012 Harvard Graduate School of Education

Workshop & Conference Presentations

- 2013 National Institute for Student-Centered Education

- 2013 Massachusetts General Hospital
Psychiatry Residents
-

- 2012 Montessori Schools of Massachusetts
Annual Conference

- 2011 Montessori Schools of Massachusetts
Annual Conference

- 2011 Advanced Assistants Training (3 week workshop),
Center for Montessori Education Training Institution:
Cultural Curriculum, Writers Workshop, Advanced
Math

- 2010 Full Day Writers-Workshop Seminar, Lexington Montessori
School
-

Professional Service

- 2013 Association of Independent Schools of New England/American
Montessori Society – School Accreditation Team Member

- 2012 American Montessori Society – School Accreditation Team
Member

- 2011 Association of Independent Schools of New England/American
Montessori Society – School Accreditation Team Member

Staff Assessment

We will use a self-assessment tool developed by The Framework for Teaching. This tool is a research-based set of components of instruction, aligned to the Interstate Teacher Assessment and Support Consortium standards, and grounded in a constructivist view of learning and teaching. Teachers will set goals at the beginning of the year and share the goals with the rest of the staff. In January, the goals will be self-assessed for mid-year progress and this assessment is shared with the staff. Staff will support each other in developing strategies for any challenges that are developing with regard to meeting the goals. There will be an end of self-year assessment by each teacher and the staff as a whole will discuss each teacher's progress over the year.

Faculty Annual Goal Setting Form

Employee Name: _____ School Year 2013-14

Today's date: _____

Set a minimum of one goal for each of the four domains. Answer each of the following 5 questions for every goal.

1. What is the goal you want to meet? Do not think in term of actions, but the results or outcome you are aiming to see.
2. How will this add value to your performance, to your students, to the school?
3. What measurable outcomes will your supervisor notice that will indicate you have achieved the goals?
4. What is your plan for achieving this goal and the timeframe you intend to follow?
5. What is the specific support needed (from supervisor, staff, or other) to achieve the goal?

DOMAINS

1. **Planning and Preparation** – demonstrating knowledge of content, the art and science of teaching, and of students; designing instruction and assessment.
2. **Classroom Environment** – creating an environment of kindness and respect and a culture for learning, managing procedures and student behavior, organizing physical space.
3. **Instruction** – communicating clearly and accurately, using questions and discussion techniques, engaging students in learning, providing feedback to students, demonstrating flexibility and responsiveness, reflecting on teaching.
4. **Professional Responsibilities** – maintaining accurate records, communicating with families, contributing to the school, growing and developing professionally, showing professionalism.

Your goals and plan to achieve them
If you have more than four goals please copy and paste additional boxes as needed.

Goal Domain 1 (Planning and Preparation):

How will this add value to your performance, to your students or to the school?

What measureable outcomes will indicate that you have achieved the goal?

What is your plan to achieve it and timeframe you will follow?

What is the specific support needed to achieve the goal? (supervisor, staff, professional development, or other)

Goal Domain 2 (The Classroom Environment):

How will this add value to your performance, to your students or to the school?

What measureable outcomes will indicate that you have achieved the goal?

What is your plan to achieve it and timeframe you will follow?

What is the specific support needed to achieve the goal? (supervisor, staff, professional development, or other)

Goal Domain 3 (Instruction):

How will this add value to your performance, to your students or to the school?

What measureable outcomes will indicate that you have achieved the goal?

What is your plan to achieve it and timeframe you will follow?

What is the specific support needed to achieve the goal? (supervisor, staff, professional development, or other)

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Goal Domain 4 (Professional Responsibilities):

How will this add value to your performance, to your students or to the school?

What measureable outcomes will indicate that you have achieved the goal?

What is your plan to achieve it and timeframe you will follow?

What is the specific support needed to achieve the goal? (supervisor, staff, professional development, or other) none

Mid-year progress to goals

1. Type each goal and your progress to date in achieving it
2. Add details about remaining steps, challenges as appropriate
3. Date and sign your report

Year end progress to goals

1. Add final summary of progress to your mid-year progress document. Date and use another font color to distinguish between the two.
2. Add evidence of learning for each goal (may include workshops, curriculum development, procedures, books)
3. Rate the level of excellence or accomplishment that you feel you achieved from 1-10. (1 being low, 10 being high)
4. Date and sign your report

Wild Rose Student Performance Assessment and Student Records

Primary assessment tools in Montessori schools include observation and documentation. When a student enters Wild Rose, the teachers spend time working with the child to determine where the child is working within each of the curriculum areas. The child is then introduced to the curriculum at the appropriate place within the sequence of lessons for each curriculum area. After the initial assessment, teachers give new lessons as they observe mastery of the previous lesson. Teachers maintain precise records of the lessons presented and each child's individual mastery of the concepts presented. Montessori teachers are trained in specific observation techniques and use these techniques to document and assess each child's progress. If a child is demonstrating difficulty with a specific concept, the teacher will represent the lesson, focusing on the specific area of difficulty, until the skill is mastered.

Beginning in first grade, children learn to keep work journals where they record what they have worked on and keep track of their daily lessons and follow-up work. Students meet with a teacher on a weekly basis to go over their journals, assess their time management skills and plan for the following week.

Wild Rose will use Montessori Compass <http://montessoricompass.com/> to record each child's progression. Montessori Compass is a highly secure electronic tool for Montessori school management, classroom management and parent communication. We will also use it to manage attendance and the required forms for each child's personal file. Reports can be instantly generated to ensure that each child and each age level grouping is progressing at the appropriate level. Reports can be shared with parents. We can also share these reports with any schools that the child transfers to as a complete record of the child's lessons and mastery of those lessons.

Parent conferences are scheduled in the late fall and in the spring. Parents are given a written progress report and have a 30 minute meeting with the team of teachers.

Any paper files for students (and staff) will be stored in a secure location in the teacher/administrator office.

WILD ROSE MONTESSORI



STUDENT PROGRESS REPORT

NAME :

GRADE:

DATE:

TEACHERS:

WORK AND STUDY HABITS				
SCALE	1 – DEVELOPING	2 – SOMETIMES	3 – FREQUENTLY	4 – ALWAYS
	1	2	3	4
WORKS WELL INDIVIDUALLY				
WORKS WELL WITH OTHERS				
KEEPS TRACK OF BELONGINGS				
MANAGES TIME WELL				
ARRIVES PROMPTLY WHEN CALLED FOR LESSONS				
PARTICIPATES POSITIVELY AT LESSONS				
OPEN TO ASSISTING OTHERS				
CONNECTS NEW LEARNING TO PREVIOUS LEARNING				
RESPONDS POSITIVELY TO ACADEMIC CHALLENGES				
PERSEVERES				
SOCIAL AND EMOTIONAL GROWTH				
	1	2	3	4
DEMONSTRATES SELF-CONFIDENCE				
DEMONSTRATES GRACE AND COURTESY				
ACCEPTS RESPONSIBILITY				
RESPECTS OTHERS				
RESPECTS ENVIRONMENT				
PRACTICES ATTENTIVE LISTENING				
ADJUSTS WELL TO NEW CIRCUMSTANCES				
PRACTICES SELF-CONTROL				
OPEN TO COOPERATION AND COLLABORATION				
SEEKS TO RESOLVE CONFLICTS				
WRITTEN REPORT:				

MATH AND GEOMETRY

MATH

- **NUMERATION AND PLACE VALUE:** SKIP COUNTING, BUILDING NUMBERS, COMPARING
- **MEMORIZATION:** +, -, X MATH FACTS
- **ADDITION:** STATIC, DYNAMIC, WITH MATERIALS, ABSTRACT, COMMUTATIVE LAW, WORD PROBLEMS
- **MULTIPLICATION:** STATIC, DYNAMIC, WITH MATERIALS

GEOMETRY

- **MEASUREMENT:** NON-STANDARD AND STANDARD UNITS; RULERS – INCHES, CENTIMETERS
- **CONSTRUCTIVE TRIANGLES:** IDENTIFICATION OF PLANE FIGURES; CONGRUENCE; BUILDING FIGURES
- LINES:** POSITION; TYPES OF LINES; RELATIONSHIP BETWEEN TWO LINES

WRITTEN REPORT:

LANGUAGE

WRITING

- **HANDWRITING:** CURSIVE PRACTICE
- **WRITING WORKSHOP:** GENERATING SEED IDEAS; POETRY; DRAFTING; EDITING; REVISING; PUBLISHING
- **MECHANICS:** PUNCTUATION, CAPITALIZATION
- **MORNING MESSAGE:** WRITTEN RESPONSE

WORD STUDY

- **HIGH FREQUENCY WORDS**
- **CONSONANT-VOWEL SPELLING PATTERNS**

READING

- **GENRES:** FICTION; NON-FICTION; POURQUOI TALES; BIOGRAPHY; SELECTING BOOKS
- **INDEPENDENT AND GROUP READING:** ORAL READING, SUMMARIZING; MAKING AND REVISING PREDICTIONS; SEQUENCING; VOCABULARY; SUMMARIZING MAIN IDEAS AND DETAILS

GRAMMAR

- **PARTS OF SPEECH:** VERBS, PREPOSITIONS, ADVERBS

WRITTEN REPORT:

CULTURAL

HISTORY

- CONCEPT OF A YEAR: MONTHLY CALENDARS; YEAR 2015 IN BEAD CHAINS
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ZOOLOGY

- EXTERNAL PARTS OF ANIMALS: FISH, AMPHIBIANS, REPTILES, BIRDS, MAMMALS
- RESEARCH OF AN ANIMAL

BIOMES

- PARTS OF A BIOME
- TYPES AND CHARACTERISTICS OF BIOMES: DESERT, MOUNTAINS, POLAR REGIONS, WETLANDS, TEMPERATE AND TROPICAL FORESTS, PLAINS; ANIMALS AND PLANTS IN DIFFERENT BIOMES

BOTANY

- FIRST KNOWLEDGE: FUNGI, SEAWEED
- EXTERNAL PARTS OF PLANTS: FUNGI, SEAWEED

POLITICAL GEOGRAPHY

- PUZZLE MAPS: CONTINENTS; NORTH AMERICA
- REGIONS OF THE UNITED STATES

PHYSICAL GEOGRAPHY

- SUN AND EARTH: RELATIVE SIZE; ZONES OF THE EARTH: (EQUATOR, TROPICS, POLAR REGIONS); SEASONS

PHYSICAL SCIENCE

- NATURE OF THE ELEMENTS: SOLIDS, LIQUIDS, GASES; ELASTICITY, PLASTICITY, RIGIDITY; MAGNETISM.

WRITTEN REPORT: