



Kindergarten

Curriculum Milestones and Competencies



Kindergarten International Baccalaureate Transdisciplinary Themes & Inquiry

Who We Are

An inquiry into the nature of the self; beliefs and values; personal, physical, mental, social and spiritual health; human relationships including families, friends, communities, and cultures; rights and responsibilities; what it means to be human.

Inquiry

Our school is a community that helps people learn and live together.

Where We Are In Place and Time

An inquiry into orientation in place and time; personal histories; homes and journeys; the discoveries, explorations and migrations of humankind; the relationships between and the interconnectedness of individuals and civilizations, from local and global perspectives.

Inquiry

Our lives are different from the lives of people who lived in the past.

How We Express Ourselves

An inquiry into the ways in which we discover and express ideas, feelings, nature, culture, beliefs and values; the ways in which we reflect on, extend and enjoy our creativity; our appreciation of the aesthetic.

Inquiry

Emotions, feelings and ideas can be expressed and shared through the "100 languages".

How the World Works

An inquiry into the natural world and its laws; the interaction between the natural world (physical and biological) and human societies; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and on the environment.

Inquiry

Light affects everything in our world.

Sharing the Planet

An inquiry into rights and responsibilities in the struggle to share finite resources with other people and with other living things; communities and the relationships within and between them; access to equal opportunities; peace and conflict resolution.

Inquiry

Empathy for other living things in our garden is strengthened by scientific knowledge of these species.



ITALIAN | ITALIANO 80% instructional time

Reading | **Lettura**

- Recognize syllables and use them to construct and deconstruct brief sentences | **Riconoscere le sillabe e utilizzarle per costruire e scomporre brevi frasi**
- Understand brief texts in Italian | **Comprendere brevi testi**

Italian Language | **Lingua Italiana**

- Extend vocabulary from their origins (roots) | **Ampliare il patrimonio lessicale**
- Use learned vocabulary in context | **Usare in modo appropriato le parole apprese**

Writing | **Scrivere**

- Develop fine motor skills and eye-hand coordination | **Sviluppare la motricità fine e la coordinazione oculo-manuale**
- Write in upper and lower case letters | **Scrivere in stampatello maiuscolo e minuscolo**

Listening, Speaking and Presenting | **Ascoltare, Parlare e Presentare**

- Understand the main idea and key details in a discussion | **Comprendere l'argomento e le informazioni principali di un discorso**
- Give simple directions for everyday actions | **Dare semplici istruzioni su azioni quotidiane**
- Retell personal stories or make believe with key ideas in Italian | **Raccontare storie personali o fantastiche con le informazioni principali**



ENGLISH 20% instructional time

<h3>Reading</h3> <ul style="list-style-type: none">• Actively engage in group reading activities with purpose and understanding• Explore phonics and word analysis skills in decoding words• Recognize grade-level sight words	<h3>Writing</h3> <ul style="list-style-type: none">• Explore text types and purposes• Experience production & distribution of writing• Develop and practice formation of printed upper and lower case letters
<h3>English Language</h3> <ul style="list-style-type: none">• Develop understanding of spoken words, syllables, and sounds• Introduction to conventions of standard English (capitalization, punctuation, and spelling) when writing	<h3>Listening, Speaking and Presenting</h3> <ul style="list-style-type: none">• Demonstrate comprehension and collaboration• Experience presentation of knowledge and Ideas



MATHEMATICS

Number Sense

- Extend the counting sequence
- Understand place value
- Use place value understanding and properties of operations to add and subtract
- Develop mental math skills in addition and subtraction

Pattern and Function

- Understand and apply properties of operations and the relationship between addition and subtraction
- Represent and solve problems involving addition & subtraction
- Add and subtract within 100, working with addition and subtraction equations
- Introduced to properties of multiplication and division

Shape and Space

- Identify and describe 2-D and 3-D shapes
- Analyze, compare, create, and compose shapes
- Model shapes in the world by building with components

Measurement and Data Handling

- Describe and compare measurable attributes
- Collect, classify objects and count the number of objects in each category - and reflect on observations



HISTORY, GEOGRAPHY, SOCIAL STUDIES

History

- Understand how people lived in earlier times and how their lives would be different today (e.g., getting water from a well, growing food, making clothing, having fun, forming organizations, living by rules and laws)
- Identify the purposes of, and the people and events honored in, commemorative holidays, including the human struggles that were the basis for the events.

Geography

- Demonstrate familiarity with the school's layout, environs, and the jobs people do there
- Use maps to understand direction, and how people organize themselves in space and time
- Compare and contrast the locations of people, places, and environments and describe their characteristics

Social Studies

- Collectively develop classroom agreements related to responsibility, empathy, collaboration and respect; and understand the importance of following classroom agreements
- Discuss the benefits of being open to others, and recognize the uniqueness of others as a positive aspect of identity
- Discuss inclusive vs exclusive behaviors and how they affect others



SCIENCE Learning outcomes are from the Next Generation Science Standards

Weather and Climate

- Make observations to determine the effect of sunlight on Earth's surface
- Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area

Waves - Light

- Make observations to construct an evidence-based account that objects can be seen only when illuminated
- Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light

Structure, Function, and Information Processing

- Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen

Interdependent Relationships in Ecosystems

- Plan and conduct an investigation to determine if plants need sunlight and water to grow
- Use observations to describe patterns of what living things need to survive in the garden

TECHNOLOGY

Robotics

- What is a robot?
- Introduction to "Code and Go Robot" & "Dash"
- Direction, Sequence, introduction to Loop



ATELIER: ARTE

"For students to explore and construct a sense of self and develop an understanding of the world around them." IB PYP

<p>Creating</p> <ul style="list-style-type: none">• Communicate distinctive forms of meaning• Develop technical skills• Take creative risks• Solve problems• Visualize consequences	<p>Creative exploration through</p> <ul style="list-style-type: none">• Imagination• Experiences and knowledge of materials and processes• Making connections• Development of personal artistic journey
<p>Responding</p> <ul style="list-style-type: none">• Critical analysis• Interpretation• Evaluation• Reflection• Communication	<p>Understanding of</p> <ul style="list-style-type: none">• Concepts• Methods• Elements• Context• Perspectives



ATELIER: ENVIRONMENTAL STUDIES

Stewardship

- Care and respect for living things & their habitat in the garden
- Share limited garden resources

Gardening

- Nature observation skills
- Use tools appropriately, caring for plants, and applying observation skills.

Ecoliteracy

- Understand basics of plant development
- Understand plant responses to light
- Know what living things need to survive



ATELIER: MUSIC

<h3>Rhythm</h3> <ul style="list-style-type: none">• Basic rhythmic notation (quarter note, quarter rest, eighth notes)• Group composition and individual composition• Performance of rhythmic material	<h3>Pitch</h3> <ul style="list-style-type: none">• Solfeggio (associate discreet pitch with names/signs)• Inquiry/Discovery – sound/form relationships, testing hypotheses• Group and Individual composition• Performance of melodic material
<h3>Active Listening</h3> <ul style="list-style-type: none">• Exploration of composers' use of instruments• Visiting Artists (virtual)• Movement / Dance	<h3>Vocal Music</h3> <ul style="list-style-type: none">• Varied styles• Increased range• Solo vs. Chorus• Different Languages
<h3>Form</h3> <ul style="list-style-type: none">• Verse/Strofa vs. Ritornello/Refrain	



PHYSICAL EDUCATION (PE)

Concepts, principles, and strategies

- Collaboration
- Organized play
- Game design
- Athletic skill building and investigation
- Mindfulness
- Self-awareness

Motor skills and movement patterns

- Movement Concepts
- Body Management
- Locomotor Movement
- Manipulative Skills
- Rhythmic Skills
- Fitness Concepts
- Aerobic Capacity



SOCIAL EMOTIONAL LEARNING (SEL)

Guided by the Collaborative for Academic, Social, and Emotional Learning (CASEL) Competencies

<h3>Self-Awareness</h3> <ul style="list-style-type: none">• Integrating personal and social identities• Having a growth mindset	<h3>Social Awareness</h3> <ul style="list-style-type: none">• Taking others' perspectives
<h3>Self-Management</h3> <ul style="list-style-type: none">• Managing one's emotions• Setting personal and collective goals	<h3>Relationships</h3> <ul style="list-style-type: none">• Communicating effectively• Resolving conflicts constructively
<h3>Responsible Decision Making</h3> <ul style="list-style-type: none">• Demonstrating curiosity and open-mindedness by identifying solutions for personal and social problems• Reflecting on one's role to promote personal, family, and community well-being by evaluating personal, interpersonal, and community impact	



“Our task, regarding creativity, is to help children climb their own mountains, as high as possible...”

Loris Malaguzzi