

Our Lady of the Lake Roman Catholic School
Yearly Course Outline
Science
Fifth Grade
2026–2027

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Course Description

- I. **Project Lead the Way (PLTW) Launch Curriculum, Grade 5** – Students will study the following PLTW Launch modules:

Module 1 – Infection: Modeling and Simulation – Students investigate models and simulations and discover powerful ideas about computing. In the design problem students to look to model an infectious disease to simulate how an illness spread through their class. Applying their new understanding, students program their own models and collect data by running simulations with different parameters.

Module 2 – Infection: Detection – Students explore transmission of infection, agents of disease, and mechanisms the body uses to stay healthy. Through a simulation, they compare communicable and non-communicable diseases. Students tackle a design problem by examining evidence to deduce the agent of infection, the likely source of the outbreak, and the path of transmission through a school. They design and run an experiment related to limiting the spread of germs and apply results to propose appropriate prevention methods.

Module 3 – Matter: Properties and Reactions – Students learn about the three states of matter. They investigate mixtures of different materials that lead to new substances and conserve mass. Students design a test that demonstrate that an item has the required mechanical properties.

Module 4 – Ecosystems: Flow of Matter and Energy – Students learn about Earth's ecosystems and how energy flows from the Sun to plants, and from plants to animals. Students create a model to describe photosynthesis and explain how energy from the Sun is introduced into an ecosystem. Students use evidence to defend the claim that plants get the materials they need for growth mainly from air and water. Students learn how energy flows through an ecosystem and explore a simulation about how an ecosystem can become unbalanced. Finally, students use the design process to develop an action plan to protect an ecosystem that has become unbalanced due to human activity.

Module 5 – Patterns in the Universe – Students develop an understanding that stars are balls of hot gas. They learn that our Sun is a star at the center of our planetary system. Students learn about predictable patterns on Earth in relation to its place in the solar system. They design an exhibit that educates others about a concept they have learned throughout the module.

Module 6 – Earth's Water and Interconnected Systems – Students learn about Earth's systems: the atmosphere, hydrosphere, geosphere, and biosphere. Students examine how these systems interact and examine the role of gravity within each system. They take an in-depth

look at how the processes of the water cycle intersect with each of the systems and apply this knowledge to investigate factors that impact the rate of evaporation. Students use the design process to develop a method for producing clean drinking water from samples of contaminated water.

Module 7 – Robotics and Automation – Students explore the ways robots are used in today’s world and their impact on society and the environment. Students learn about a variety of robotic components as they build and test mobile robots that may be controlled remotely. Students will be challenged to design, model, and test a mobile robot that solves a specific design problem.

Module 8 – Robotics and Automation: Challenge – Students expand their understanding of robotics as they explore mechanical design and computer programming. This module focuses on developing skills needed to build and program autonomous robots. Students will work with a group to apply their knowledge to design, build, test, and refine a mobile robot that meets a set of design constraints.

Instructional Materials

PLTW

Methods of Assessment and Distribution

All test, quiz, and homework grades will be posted on PowerSchool (www.ollpowerschool.org). Please check for postings frequently. Each quarter, four tests and four quiz assessments will be administered.

Assessment Weighting

- 60% Tests
- 30% Quizzes
- 10% Homework

Grading Scale

- A: 100-94
- B: 93-86
- C: 85-78
- D: 77-70
- U: 69 and below

Tentative Course Calendar

**** Dates and course content are subject to change at discretion of teacher or administration. ****

Aug 6 – First day of school 4th - 7th

Week	Standards	Objectives (The learner will . . .)	Instructional Materials	Assessments
1st Quarter				
Week 1 Aug. 10-14 8/14 Summer Reading Due	Week 1 Aug. 12-16 8/16 Summer reading due	NGSS: 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-LS2-1 5-ESS3-1 5-PS1-1	Infection: Modeling and Simulation ... identify the agents and parameters in a simple system. ... explain that changing a parameter while running a simulation uncovers how the parameter affects the model system. ... organize and collaborate with group members by assigning roles and taking turns. ... use parameters in a preprogrammed simulation to investigate the model system, its agents, and the effects of its parameters.	Launch Logs IPads Red/Blue Construction Paper Health Status Data Sheet
Week 2 Aug. 17-21 8/18 PTCC Mtg 6pm	NGSS: 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-PS1-1 5-PS1-3	... identify the agents and parameters in a simple system. ... explain that changing a parameter while running a simulation uncovers how the parameter affects the model system. ... use parameters in a preprogrammed simulation to investigate the model system, its agents, and the effects of its parameters.	Launch Logs IPads	Q1 Test 1 : Modes of Transmission
Week 3 Aug. 24-28	NGSS: 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B	... identify parts of a computational solution that can be abstracted and modularized in order to make the solution efficient and generalizable.	Launch Logs IPads	Q1 Quiz 2 Activity 1: Germs, Germs Everywhere!

	<i>Science and Engineering Practices</i> 5-PS1-4 5-PS3-1	... identify events that drive a program's behavior such as external user interaction and internal variable counters. ... use variables appropriately as part of a computational solution. ... implement a loop when appropriate to make a program repeat a section of code until an ending condition is reached. ... program actors to respond to both internal and external event triggers. ... demonstrate persistence in the cycle of testing, finding, and fixing problems in computer programs.		
Week 4 Aug 31- Sept 4	NGSS: 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-PS3-1 5-ESS1-2 5-PS3-1 5-LS2-1	... explain that changing a parameter while running a simulation uncovers how the parameter affects the model system. ... explain in simple terms how to clone an object to make a variable number of copies as determined at program runtime. ... decompose a problem and use a predefined set of commands to write an algorithm that will solve the problem. ... construct a class of objects with inherited properties and methods to create a variable number of agents in a program. ... construct a computer program using age-appropriate tools to model	Launch Logs IPads	Q1, Test 2 (Modeling and Simulation Launch Log)

		a simple system and to simulate how it works. ... demonstrate persistence in the cycle of testing, finding, and fixing problems in computer programs.		
Week 5 Sept. 7-11 9/7 Labor Day No School	NGSS: LS2.A ETS1-1 ETS1-2 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-ESS1-2 5-PS1-3 5-PS2-1 5-PS1-3	Infection Detection ... recognize that germs can make a person sick, and that bacteria and viruses are germs. ... describe the various ways germs can be passed from person to person. ... identify behaviors that promote good health. ... maintain a notebook to document work. ... share findings and conclusions with others. ... organize and analyze medical data to determine a likely source of an infection. ... demonstrate the spread of infection using a graphical organizer and justify connections between infected individuals.	Simulated germ powder UV flashlights Launch Logs IPads Colored pencils Popplet Lite Lensoo Create	
Week 6 Sept. 14-18 Spirit Week 9/18 Pep Rally and Fun Run Kickoff	NGSS: LS2.A ETS1-1 ETS1-2 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-PS1-3 5-LS1-1 5-PS1-2 5-PS1-4	... identify behaviors that promote good health. ... perform an investigation in order to draw conclusions. ... maintain a notebook to document work. ... share findings and conclusions with others.	Simulated germ lotion UV flashlight Disposable transfer pipettes Various soaps (bar soap, liquid hand soap, antibacterial liquid hand soap, foaming antibacterial soap) Launch Logs IPads Colored pencils Rulers Scientific Inquiry Process resource sheets Experiments Resource Sheets Experiment Data Sheets	Q1 Quiz 3 (Infection Detection Vocabulary Quiz)

Week 7 Sept. 21-25 9/25 Birthday Brunch (July, Aug, Sept)	NGSS: LS2.A ETS1-1 ETS1-2 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-PS1-1 5-PS2-1	... identify the ways that the body protects and defends itself against infection. ... maintain a notebook to document work. ... share findings and conclusions with others.	Battle with the Bugs: An Imaginative Journey Through the Immune System Launch Logs iPads Body's Defenses Against Infection presentation Body Outline Colored pencils	Q1 Test 3 (Interview with a Healthcare Provider)
Week 8 Sept.28- Oct. 2 10/2 – Fun Run 10/2 - ½ day dismissal	NGSS: LS2.A ETS1-1 ETS1-2 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-PS1-1 5-ESS1-2	... recognize that germs can make a person sick, and that bacteria and viruses are germs. ... recognize that bacteria and viruses are microscopic in size and that they cannot be seen with the naked eye. ... use scientific tools to examine cells or organisms that are microscopic. ... maintain a notebook to document work. ... share findings and conclusions with others. ... organize and analyze medical data to determine a likely source of an infection.	Launch Logs iPads Colored pencils Disease cards (1 print per group) Microorganisms PDF Microorganisms Resource Sheet (1 per student) Patient Information Resource Sheet (1 print per group)	Q1 Quiz 4 (Infection Fighters)
Week 9 Oct. 5-9 10/8 End of 1 st Qtr 10/9 No School 10/9-10/11 Festival of the Lake	NGSS: LS2.A ETS1-1 ETS1-2 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-PS1-1 5-ESS1-2	... recognize that germs can make a person sick, and that bacteria and viruses are germs. ... recognize that bacteria and viruses are microscopic in size and that they cannot be seen with the naked eye. ... use scientific tools to examine cells or organisms that are microscopic. ... maintain a notebook to document work. ... share findings and conclusions with others. ... organize and analyze medical data to determine a likely source of an infection.	Launch Logs iPads Colored pencils Disease cards (1 print per group) Microorganisms PDF Microorganisms Resource Sheet (1 per student) Patient Information Resource Sheet (1 print per group)	Q1, Test 4 (Infection Detection Launch Log)

2nd Quarter				
Week 10 Oct. 12-16 10/13 Living Rosary 10/15 CFR Reward Day 10/15 - ½ Day Teacher Conferences 10/16 – No School	5-ESS1-1 3-5-ETS1	Patterns in the Universe ... use scientific reasoning to ask questions, make observations, and investigate ideas to acquire knowledge and solve problems. ... compare and contrast the Sun to other stars. ... understand the universe includes all the natural bodies in space. ... apply mathematical thinking to solve problems. ... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	Introduction Story: A Shooting Star Launch Logs IPads Inkling Star Chart Stars in the Sky Video ? Pencils or colored pencils for sketching ? Chart paper ? Markers	Q2 Quiz 1 (Patterns in the Universe Vocabulary)
Week 11 Oct. 19-23	5-ESS1-1 3-5-ETS1	... use scientific reasoning to ask questions, make observations, and investigate ideas to acquire knowledge and solve problems. ... identify the observable patterns that occur related to Earth. ... apply mathematical thinking to solve problems. ... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	Launch Logs IPads ? Inkling ? Compass ? SmartCompass ? Camera - Model tree and shrub kit - Card stock - Flashlights (15) - Measuring tapes (9) - Compass - Modeling clay ? Pencils or colored pencils for sketching ? Grid chart paper (1 piece) ? Markers ? Resealable plastic bag	Q2 Quiz 2 (Part 1: Shadow Exploration)
Week 12 Oct. 26-30	5-ESS1-1 3-5-ETS1	... use scientific reasoning to ask questions, make	Launch Logs IPads	5-ESS1-1 3-5-ETS1

Red Ribbon Week		observations, and investigate ideas to acquire knowledge and solve problems. ... compare and contrast the Sun to other stars. ... understand the universe includes all the natural bodies in space. ... identify the observable patterns that occur related to Earth. ... apply mathematical thinking to solve problems. ... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	Our World: Moon Phases video Our World:Sun's Position video • Inkling • Star Chart • What Causes the Seasons? by NASA Space Place • <i>The Next Time You See a Sunset</i> by Emily Morgan (2) • <i>The Moon Book</i> by Gail Gibbons (2) • Blue modeling clay • Gray modeling clay • Wooden dowels • Rounded toothpicks • Flashlights (4) ☐ Pencils or colored pencils for sketching ☐ Resealable plastic bags (2)	
Week 13 Nov. 2-6	5-PS2-1 5-ESS2-1 5-ESS2-2 5-ESS3-1 3-5-ETS1	Earth's Water and Interconnected Systems ... use scientific reasoning to ask questions, make observations, and investigate ideas to acquire knowledge and solve problems. ... analyze interactions between two Earth systems at a time. ... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	Introduction Story: The Big Hike Launch Logs IPads Inkling ☐ Pencils or colored pencils for sketching ☐ Chart paper ☐ Markers ☐ Index cards	5-PS2-1 5-ESS2-1 5-ESS2-2 5-ESS3-1 3-5-ETS1

Week 14 Nov. 9-13 11/11 Veterans Day Prayer Service	5-PS2-1 5-ESS2-1 5-ESS2-2 5-ESS3-1 3-5-ETS1	... use scientific reasoning to ask questions, make observations, and investigate ideas to acquire knowledge and solve problems. ... analyze interactions between two Earth systems at a time. ... understand how the water cycle connects the hydrosphere to the other spheres. ... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	Launch Logs IPads • Inkling • Camera • Aquarium/terrarium, plastic, without cover, 1 ½ gallon (8) • Petri dishes (8) • Plastic wrap • Ice cube tray • Large rubber bands (8) • <i>A Drop Around the World</i> by Barbara Shaw McKinney • Plastic cups ☐ Pencils or colored pencils for sketching ☐ Chart paper ☐ Markers ☐ Fast-growing seeds, such as: • Alfalfa • Radish • Chia • Lettuce • Basil • Marigold • Morning glory ☐ Potting soil ☐ Water ☐ Spray bottle	5-PS2-1 5-ESS2-1 5-ESS2-2 5-ESS3-1 3-5-ETS1
Week 15 Nov. 16-20 St. Nick's Workshop	5-PS2-1 5-ESS2-1 5-ESS2-2 5-ESS3-1 3-5-ETS1	... use scientific reasoning to ask questions, make observations, and investigate ideas to acquire knowledge and solve problems. ... analyze the fractional amounts of salt water, fresh water, and accessible fresh water. ... apply mathematical thinking to solve problems.	Launch Logs IPads • Inkling • Calculator • Presentation app, such as: ◦ Popplet Lite ◦ Mindomo ◦ ShowMe • Interactive Whiteboard	Q2 Test 3 (Grid/AuthaGraph World Map + Written Assessment on Salt Water and Fresh Water)

		... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	• WaterSense for Kids • AuthaGraph world map • Map cut into eight pieces • Transparencies, with grid • Dry-erase markers (1 package per group) Pencils or colored pencils for sketching	
Thanksgiving Holidays Nov. 23-27				
Week 16 Nov 30- Dec 4 12/4 Birthday Brunch (Oct, Nov, Dec)	5-PS2-1 5-ESS2-1 5-ESS2-2 5-ESS3-1 3-5-ETS1	... use scientific reasoning to ask questions, make observations, and investigate ideas to acquire knowledge and solve problems. ... analyze interactions between two Earth systems at a time. ... understand how the water cycle connects the hydrosphere to the other spheres. ... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	Launch Logs IPads Inkling • 300-watt incandescent clamp light • 250-watt incandescent lamp bulb • Petri dishes (16) • Fan with clamp • Dry-erase markers (8) ☐ Pencils or colored pencils for sketching ☐ Water ☐ Terrariums from Activity 2	Q2 Test 4 (Earth's Water and Interconnected Systems Launch Log)
Week 17 Dec. 7-11 Week 18 Dec. 14-18 12/18 - ½ day End of 2nd Qtr	5-PS2-1 5-ESS2-1 5-ESS2-2 5-ESS3-1 3-5-ETS1	... use scientific reasoning to ask questions, make observations, and investigate ideas to acquire knowledge and solve problems. ... analyze interactions between two Earth systems at a time. ... understand how the water cycle connects the hydrosphere to the other spheres.	Launch Logs IPads Inkling • 300-watt incandescent clamp light • 250-watt incandescent lamp bulb • Petri dishes (16) • Fan with clamp	

		... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	• Dry-erase markers (8) ☐ Pencils or colored pencils for sketching ☐ Water ☐ Terrariums from Activity 2	
Week 18 Dec. 14-18 12/18 - ½ day End of 2 nd Qtr				
Christmas Holidays Dec. 21 – Jan. 4				
3rd Quarter				
Week 19 Jan. 4-8 ¼ - No School	5-PS1-1 5-PS1-2 5-PS1-3 3-5-ETS1	Matter: Properties and Reactions ... follow a step-by-step method to solve a problem. ... use scientific reasoning to ask questions, make observations, and investigate ideas to make sense of phenomena and solve problems. ... conduct investigations to develop an understanding of the properties of matter. ... make observations to describe materials based on their mechanical properties. ... apply mathematical thinking to solve problems. ... apply measurement and data to solve problems. ... apply geometry to solve problems. ... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice al behavior in all settings.	Introduction Story: Testing Things Out Launch Logs IPads Inkling PhET® States of Matter: Basics simulation Ice cube tray 100 mL beakers (2) Vanilla scents (2) Colored pencils Water Chart paper markers	Q3 Quiz 1: Matter: Properties and Reactions Vocabulary

Week 20 Jan. 12-16 Week 21 Jan. 18-22 1/18 – MLK Day No School 1/22 Birthday Brunch (Jan, Feb, Mar)	5-PS1-1 5-PS1-2 5-PS1-3 3-5-ETS1	... use scientific reasoning to ask questions, make observations, and investigate ideas to make sense of phenomena and solve problems. ... conduct investigations to develop an understanding of the properties of matter. ... apply mathematical thinking to solve problems. ... apply measurement and data to solve problems. ... apply geometry to solve problems. ... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice al behavior in all settings.	Launch Logs IPads • Inkling • ShowMe Interactive Whiteboard • 50 mL graduated cylinders (16) • 100 mL beakers (10) • Stir sticks (10) • Tablespoons (8) • Digital scales (4) • Disposable transfer pipettes (30) • Sponges (9) • Test tube brushes (10) • Safety glasses (31) • Coarse kosher salt ☐ Pencils or colored pencils for sketching ☐ Pure cane granulated sugar (1 lb) ☐ Iodized salt (26 oz) ☐ Water ☐ Rubbing alcohol (32 fl oz) ☐ All-purpose flour (5 lb) ☐ Liquid dish soap (1 bottle) ☐ Chart paper ☐ Markers	Q3 Quiz 2 (Conservation: It's the Law! Mixtures Worksheet
Week 21 Jan. 18-22 1/18 – MLK Day No School 1/22 Birthday Brunch (Jan, Feb, Mar)				
Week 22 Jan. 25-29 1/29 - Pep Rally	5-PS1-1 5-PS1-2 5-PS1-3	... use scientific reasoning to ask questions, make observations, and	• Launch Log • IPads • Device applications:	Q3 Test 1 (Mixing Matter/New Substances)

1/29 – Eve Parade	3-5-ETS1	investigate ideas to make sense of phenomena and solve problems. ... conduct investigations to develop an understanding of the properties of matter. ... apply mathematical thinking to solve problems. ... apply measurement and data to solve problems. ... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice al behavior in all settings.	○ Inkling ○ Stopwatch ○ ShowMe - Interactive Whiteboard • Pencils or colored pencils for sketching • 50 mL graduated cylinders (16) • 100 mL beakers (10) • Disposable transfer pipettes (30) • Tablespoons (8) • Stir sticks (10) • Safety glasses (31) • Sponges (9) • Test tube brushes (10) • Paper clips (8) • Cooking oil (16 fl oz) • Water • Sand • Iodized salt (26 oz) • Baking soda (1 lb) • Distilled white vinegar (32 oz) • Liquid dish soap (1 bottle) • Chart paper • Markers	
Week 23 Feb. 1-5 Catholic Schools Week 2/5 Grandparents Day 2/5 – ½ Day	5-PS1-1 5-PS1-2 5-PS1-3 3-5-ETS1	... use scientific reasoning to ask questions, make observations, and investigate ideas to make sense of phenomena and solve problems. ... conduct investigations to develop an understanding of the properties of matter. ... apply mathematical thinking to solve problems. ... apply measurement and data to solve problems. ... collaborate effectively on a diverse and multidisciplinary team.	• Launch Log • IPads • Device applications: ○ Inkling ○ Stopwatch ○ ShowMe - Interactive Whiteboard • Pencils or colored pencils for sketching • 50 mL graduated cylinders (16) • 100 mL beakers (10) • Disposable transfer pipettes (30)	Q3 Test 2 (Matter: Properties and Reactions Launch Log)

		... communicate effectively for specific purposes and settings. ... practice al behavior in all settings.	• Tablespoons (8) • Stir sticks (10) • Safety glasses (31) • Sponges (9) • Test tube brushes (10) • Paper clips (8) • Cooking oil (16 fl oz) • Water • Sand • Iodized salt (26 oz) • Baking soda (1 lb) • Distilled white vinegar (32 oz) • Liquid dish soap (1 bottle) • Chart paper • Markers	
Mardi Gras Holiday February 8-12				
Week 24 Feb. 15-19	5-PS3-1 5-LS1-1 5-LS2-1 3-5-ETS1	Ecosystems: Flow of Matter and Energy ... follow a step-by-step method to solve a problem. ... use scientific reasoning to ask questions, make observations, and investigate ideas to make sense of phenomena and solve problems. ... analyze how plants grow. ... describe how matter and energy flow among living things. ... evaluate the delicate balance of interactions within an ecosystem. ... apply mathematical thinking to solve problems. ... apply geometry to solve problems. ... collaborate effectively on a diverse and multidisciplinary team.	Introduction Story: The Coyote Mystery Launch Logs IPads • Inkling • Camera • Pipe cleaners • Pom-poms • Tacky glue • Masking tape • Colored paper ☐ Pencils or colored pencils for sketching ☐ Chart paper ☐ Markers ☐ Optional materials for the photosynthesis models: • Colorful beads • Poster board Photosynthesis Key Element cards	Q3 Quiz 3 (Eco systems: Flow of Matter and Energy Vocabulary Quiz)

		... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.		
Week 25 Feb. 22-26	5-PS3-1 5-LS1-1 5-LS2-1 3-5-ETS1	... use scientific reasoning to ask questions, make observations, and investigate ideas to make sense of phenomena and solve problems. ... analyze how plants grow. ... collaborate effectively on a diverse and multidisciplinary team. ... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	Launch Logs IPads ? Inkling ? Camera Observation Charts Worksheet - Seed sprouter inner trays (10) - Seed sprouter bottom trays (10) - Alfalfa seeds - Plastic wrap - Seed paper 2-cup measuring cup - Digital scale ? Pencils or colored pencils for sketching ? Chart paper ? Markers ? Permanent marker ? Bowl ? Tablespoon ? Water ? Optional: Grid chart paper (1 piece)	Q3 Test 3 (What Do Plants Need to Grow? Observation Charts Worksheet)
Week 26 March 1-5 Book Fair	5-PS3-1 5-LS1-1 5-LS2-1 3-5-ETS1	... use scientific reasoning to ask questions, make observations, and investigate ideas to make sense of phenomena and solve problems. ... analyze how plants grow. ... describe how matter and energy flow among living things. ... apply mathematical thinking to solve problems.	Launch Logs IPads ? Inkling Food Web Game <i>Pass the Energy, Please</i> by Barbara Shaw McKinney - Tokens - Labels - Resealable plastic bags	Q3 Quiz 4 (Food Web Game Questions)

		... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	☐ Pencils or colored pencils for sketching ☐ Chart paper ☐ Markers ☐ Bucket, bin, or hat labeled "Soil"	
Week 27 March 8-12 3/12 – ½ Day End of 3rd Qtr	5-PS3-1 5-LS1-1 5-LS2-1 3-5-ETS1	... describe how matter and energy flow among living things. ... evaluate the delicate balance of interactions within an ecosystem. ... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	Launch Logs IPads Inkling The Habitable Planet: Ecology Lab, Pencils or colored pencils for sketching Simulation Worksheet	Q3 Test 4 (Ecosystems: Flow of Matter and Energy Launch Log)
4th Quarter				
Week 28 March 15-19 3/18 - Passion Play	5-PS3-1 5-LS1-1 5-LS2-1 3-5-ETS1	... describe how matter and energy flow among living things. ... evaluate the delicate balance of interactions within an ecosystem. ... communicate effectively for specific purposes and settings. ... practice ethical behavior in all settings.	Launch Logs IPads Inkling The Habitable Planet: Ecology Lab, Pencils or colored pencils for sketching Simulation Worksheet	
Week 29 March 22-26 3/26 - Good Friday	NGSS: 5-ESS3-1 ESS3.C 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-LS1-1 5-ESS3-1	Robotics and Automation ... explain what happens at each step of the design process. ... state questions that engineers may ask when gathering information about a situation people want to change. ... identify the differences between invention and innovation.	Launch Logs IPads Robots for iPad Lensoo Create Popplet Lite Optional: National Geographic Readers: Robots DK Eyewitness Books: Robot TIME for Kids Explorers: Robots	

		... identify application of robot technology used to complete dangerous tasks. ... share findings and conclusions with an audience. ... draw evidence from informational texts to support analysis, reflection, and research on robotics.		
Easter Holiday March 26 – April 2				
Week 30 April 5-9	NGSS: 5-ESS3-1 ESS3.C 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-ESS1-2	... identify inputs and outputs within a robotic system.	Launch Logs IPads Inventor Publisher files VEX IQ Robot Design Kits	
Week 31 April 12-16	NGSS: 5-ESS3-1 ESS3.C 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B Science and Engineering Practices 5-ESS2-1	... identify the differences between invention and innovation.	Launch Logs IPads VEX IQ Construction Kits	
Week 32 April 19-23 4/23 Birthday Brunch (Apr, May, June)	NGSS: 5-ESS3-1 ESS3.C 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B	... identify the differences between invention and innovation.	Launch Logs IPads VEX IQ Construction Kits	Q4 Quiz 2 (Inputs and Outputs)

	Science and Engineering Practices 5-ESS2-1			
Week 33 April 26 - 30 4/30 - Field Day ½ Day	NGSS: 5-ESS3-1 ESS3.C 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-ESS2-1 5-PS1-3 5-ESS2-2	... use motors and sensors to solve robotic problems. ... design a control system to use sensor feedback to make decisions.	Launch Logs IPads VEX IQ Design Kits Colored blocks Inventor Publisher	Q4 Test 2 (Robotics and Automation Launch Log)
Week 34 May 3-7 5/4 May Crowning 5/6 – 7 th Closing Ceremony	NGSS: 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-PS1-3 5-ESS2-2	Robotics and Automation: Challenge ... identify inputs and outputs within a robotic system. ... identify software and hardware within a robotic system.	Launch Logs IPads	Q4 Quiz 3 (R & A Challenge Vocabulary Quiz)
Week 35 May 10-14	NGSS: 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-PS3-1 5-PS1-3 5-ESS2-2	... identify inputs and outputs within a robotic system. ... identify software and hardware within a robotic system. ... apply basic commands used to program a robotic system.	Launch Logs IPads VEX IQ Robot Design Kit Inventor Publisher files Rulers Colored tape Classroom computer Inventor Publisher Modkit for VEX	Q4 Quiz 4 (Activity 3: Input Output Programming)

Week 36 May 17-21 5/19 – Grades Due Week 37 May 24-25 5/25 – ½ Day	NGSS: 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3 ETS1.A ETS1.B <i>Science and Engineering Practices</i> 5-PS1-3 5-ESS1-2 5-ESS2-2	... apply basic commands used to program a robotic system. ... design a control system to use sensor feedback to make decisions.	Launch Logs IPads VEX IQ PLTW Launch chassis built in Activity 3 VEX IQ Robot Design Kit, remaining parts VEX IQ field, configured in 2 half-fields 3 Blocks per team Modkit for VEX	Q4 Test 3 Project: Programming Challenge (Design Process) Q4 Test 4 (Robotics and Automation: Challenge Launch Log)
Week 37 May 24-25 5/25 – ½ Day				