

Grade 1 / Science / Unit # 1 Physical Science-Waves and their Applications in Technologies for Information Transfer			
Time Frame	Content Focus	Skill Focus	Standards
Sept	Accessing Online Materials	Show how to login and navigate Google Classroom in order to follow links to: <ul style="list-style-type: none"> <li>- View Mystery Science activities/videos</li> <li>- Watch assigned videos/read alouds if working remotely or independently</li> </ul>	
Oct/ Nov	Sound Encourage students to explore books on sound and light. Pull out books on instruments, shadows, the sun, etc.	<b>-Plan and conduct investigations</b> to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.	1-PS4-1 K-2-ETS1-1
	Light Travel	<b>-Make observations</b> to construct an evidence-based account that objects can be seen only when illuminated. <b>-Plan and conduct an investigation</b> to determine the effect of placing objects made with different materials in the path of a beam of light	1-PS4-2 1-PS4-3 K-2-ETS1-1

	Communication Using sound and Light	<b>-Use tools and materials</b> to design and build a device that uses light or sound to solve the problem of communicating over a distance.	1-PS4-4 K-2-ETS1-1
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Formative Assessment Plan	Summative Assessment Plan
<ul style="list-style-type: none"> <li>● Vocabulary assessment with QR codes or Kahoot!</li> <li>● Observation</li> <li>● Discussion</li> <li>● Participation</li> <li>● Test</li> </ul>	<ul style="list-style-type: none"> <li>● Build an instrument with STEAM supplies to test and make different kinds of sounds.</li> <li>● Written Lab Forms</li> <li>● Make communication devices using random materials in the classroom. Create and Test.</li> <li>● Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. Materials can be: <ul style="list-style-type: none"> <li>○ Transparent (clear plastic, glass)</li> <li>○ Translucent (wax paper, thin cloth)</li> <li>○ Opaque (cardboard, construction paper)</li> <li>○ Reflective (a mirror, a shiny metal spoon)</li> </ul> </li> <li>● Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance</li> </ul>
Main Resources	Supplementary Resources
<ul style="list-style-type: none"> <li>● Leveled Guided Reading Books</li> </ul>	<ul style="list-style-type: none"> <li>● Smartboard/computers</li> <li>● YouTube</li> </ul>

- Mystery Science (Lights & Sounds Lessons)

- Epic Books
- Bookflix

### Unit 1 Appendix

Grade 1 / Science / Unit # 2 Earth and Space Science-Earth's Place in the Universe			
Time Frame	Content Focus	Skill Focus	Standards
Jan/ Feb	<p>Sun, Moon and Stars</p> <p>Review nonfiction text features in books about planets, stars and the solar system. Help students identify important facts vs interesting facts.</p>	<p><b>-Use observations</b> of the sun, moon, and stars to describe patterns that can be predicted.</p> <p><b>-Ask questions, make observations, and gather information</b> about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.</p>	<p>1-ESS1-1 K-2-ETS1-1</p>
	<p>Seasons</p> <p>Review nonfiction text features in books about seasons. Help students identify important facts vs interesting facts</p> <p>Explore fiction books that are set in different seasons.</p>	<p><b>-Make observations</b> at different times of year to relate the amount of daylight to the time of year.</p> <p><b>-Ask questions, make observations, and gather information</b> about a situation people want to change to define a simple problem</p>	<p>1-ESS1-2 K-2-ETS1-1</p>

		that can be solved through the development of a new or improved object or tool.	
	Day and Night Provide books that explore how activities differ from day to night.	<b>Make observations</b> at different times of year to relate the amount of daylight to the time of year. <b>Ask questions, make observations, and gather information</b> about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.	1-ESS1-2 K-2-ETS1-1

Formative Assessment Plan	Summative Assessment Plan
<ul style="list-style-type: none"> <li>● Vocabulary assessment with QR codes or Kahoot!</li> <li>● Observations</li> <li>● Discussion</li> <li>● Participation</li> <li>● Test</li> </ul>	<ul style="list-style-type: none"> <li>● Review Sheets</li> <li>● Class Discussions</li> <li>● Students will make different phases of the moon, Draw a constellation, Make a dark box to explore constellations and light, explore shadows</li> <li>● Investigate using STEAM activities</li> <li>● Written Lab forms</li> </ul>
Main Resources	Supplementary Resources
<ul style="list-style-type: none"> <li>● Mystery Science (Spinning Sky lessons)</li> <li>● Read Grade Level texts</li> </ul>	<ul style="list-style-type: none"> <li>● Smartboard/computers</li> <li>● YouTube</li> <li>● <i>My Moon Book</i></li> <li>● Bill Nye; The Moon</li> <li>● Book Flix</li> </ul>

## Unit 2 Appendix

Grade 1 / Science / Unit # 3 Life Science-From Molecules to Organisms: Structure and Processes			
Time Frame	Content Focus	Skill Focus	Standards
April/ May	Plant/Animal Offsprings <b>Help students select NF and/or F animal books (to be used for animal reports). How do they determine if it is NF or F.</b>	<b>-Read texts and use media</b> to determine patterns in behavior of parents and offspring that help offspring survive	1-LS1-2 K-2-ETS1-2
	Plant/Animal Coverings <b>Showcase books about different plants.</b>	<b>-Use materials</b> to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs  <b>-Develop</b> a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.	1-LS1-1 1-LS3-1 K-2-ETS1-2

Unit 3- Life Science-Heredity: Inheritance and Variation of Traits

April/ May	Inheritance & Variation of Traits	<b>-Make observations</b> to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.	1-LS3-1
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Formative Assessment Plan	Summative Assessment Plan
<ul style="list-style-type: none"> <li>● Vocabulary assessment with QR codes or Kahoot!</li> <li>● Observation</li> <li>● Discussion</li> <li>● Participation</li> <li>● Test</li> </ul>	<ul style="list-style-type: none"> <li>● Review Sheets</li> <li>● Class Discussions</li> <li>● Investigate using STEAM Activities: make camouflage moths, Test wind effects, how do plants respond to light</li> <li>● Written Lab forms</li> </ul>
Main Resources	Supplementary Resources
<ul style="list-style-type: none"> <li>● Read Alouds</li> <li>● Mystery Science (Plant &amp; Animal Superpowers Lessons )</li> <li>● Read Grade Level texts</li> </ul>	<ul style="list-style-type: none"> <li>● YouTube</li> <li>● Smartboard/computers</li> <li>● Bookflix</li> <li>● Epic books</li> </ul>

**Unit 3 Appendix**