

# Mount Pleasant Central School District

## 1st Grade, Science



*We believe that all students should have a strong understanding of science and its application to critically assess information in the modern world and make decisions to solve real-world problems.*

How can noticing natural phenomena in the world drive student curiosity to learn and grow as scientists? Students will explore the topics of Life Science, Physical Science, Earth and Space Science, Scientific Inquiry and Practices, and Engineering and Technology. Our goals are to plan and carry out investigations, analyze data, construct explanations, and design solutions. We emphasize finding patterns, discovering cause and effect, making observations, investigating relationships between structure and function, and recognizing the influence of science on society and the natural world. Assessment will be through CER (Claim - Evidence - Reasoning) responses, end-of-unit tasks, and performance-based assessments (labs, investigations), which enable students to apply their learning to real-world situations.

Unit Title	Month	Content	Vocabulary	Standards	Skills	Big Ideas	Assessments
Communicating with Light and Sound	1st Trimester	-Behavior of Light -Sound -Communication	- Transparent, Translucent, Opaque -Vibration -Communication	(1-PS4-1) Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.  (-PS4-2) Make observations to construct an evidence-based account that objects can be seen only when illuminated.  (1-PS4-3) Plan and	-Planning and Carrying Out Investigations  -Constructing Explanations and Designing Solutions	-We cannot see without light  -Light does different things when it shines on different materials  -Vibrations cause sound  -Sounds can make things vibrate  -We use light and sound to communicate	-CER/Assessment

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				<p>conduct investigations to determine the effect of placing objects made with different materials in the path of a beam of light.</p> <p>(1-PS4-4) Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance.</p>			
Patterns in the	2nd trimester	-Seasonal Patterns -Patterns in Space	- Season -Year	(1-ESS1-1) Use observations of the	-Planning and Carrying Out	-Sunrise and sunset can be observed,	-CER/Assessments

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Sky			<ul style="list-style-type: none"> <li>-Sunrise</li> <li>-Sunset</li> <li>-Moon</li> <li>-Sun</li> <li>-Stars</li> </ul>	<p>Sun, moon, and stars to describe patterns that can be predicted.</p> <p>(1-ESS1-2) Make observations at different times of year to relate the amount of daylight to the time of year.</p>	<p>Investigations</p> <p>-Analyzing and Interpreting Data</p>	<p>described, and predicted each season.</p> <p>-The movement of the sun, the moon, and stars follows a pattern and can be predicted.</p> <p>-Seasons happen in a pattern that repeats every year.</p> <p>-During the summer there are more daylight hours, however during the</p>	

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						winter there are less.	
<b>Animals: Designs From Nature, Parents and Their Offspring</b>	3rd Trimester	-Parts of Animals -Animal Survival -Protecting the Young -Animal Trait and Variation	-External Parts -Needs -Behavior -Offspring	(1-LS1-1) Use materials 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.  (1-LS1-2) Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive	-Constructing Explanations and Designing Solutions  -Obtaining, Evaluating, and Communicating Information	-Animals have external parts that help them grow, survive, and meet their needs.  -Animals use their senses to survive.  -Animals protect and care for their young in many ways.  -Animal offspring get traits from both parents.	CER/Assessment

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				(1-LS3-1) Make observations to construct an evidence-based account that some young plants and animals are similar to, but not exactly like, their parents.			
<b>Plants: Designs From Nature, Parents and Their Offspring</b>	3rd Trimester	-Parts of Plants -Plant Survival -Plant Trait Inheritance and Variation	-Grow -Root -Stem -Leaves	(1-LS1-1) Use materials 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	-Constructing Explanations and Designing Solutions  -Obtaining, Evaluating, and Communicating Information	-Plants have external parts that help them grow, survive, and meet their needs.  -Plants need sunlight, air and water to survive.	CER/Assessment

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				<p>needs.</p> <p>(1-LS1-2) Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive</p> <p>(1-LS3-1) Make observations to construct an evidence-based account that some young plants and animals are similar to, but not exactly like, their parents.</p>		-Plants get their traits from their parents.	

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Engineering Design	Throughout the Year	- Engineering content is connected to the other science concepts taught throughout the year.	-Design Process -Problem -Solution -Improve	(K-2-ETS1-1) Ask questions, make observations, and gather information 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.  (K-2-ETS1-2) Develop a simple sketch, drawing, or physical model to illustrate how the shape of an	-Asking Questions and Defining Problems  -Developing and Using Models  -Analyzing and Interpreting Data	-A situation that people want to change or create can be approached as a problem to be solved through engineering.  -Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating solutions to other people.  -Because there is	STEM Design Challenges

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				object helps it function as needed to solve a given problem.  (K-2-ETS1-3) Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.		always more than one possible solution to a problem, it is useful to compare and test designs.	

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