



01

Science - USA

NGSS - GRADE 1

Experience Level: **ELEMENTARY**Number of Classes: **VARIABLE**Age Range: **5 - 6 YEARS**

01

Waves: Light and Sound

- Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.
 - What is Sound?
 - Features of Sound
- Make observations to construct an evidence-based account that objects can be seen only when illuminated.
 - What is Light?
 - Sources of Light
- Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.
 - Light On Materials



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02

02

Space Systems: Patterns and Cycles

- Use observations of the sun, moon, and stars to describe patterns that can be predicted.
 - Examples of patterns could include that the sun and moon appear to rise in one part of the sky, move across the sky, and set; and stars other than our sun are visible at night but not during the day.
- Make observations at different times of year to relate the amount of daylight to the time of year.
 - Emphasis is on relative comparisons of the amount of daylight in the winter to the amount in the spring or fall.

03

Engineering Design

- 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.
- Develop 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.
- Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.



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