

Structures

5, 6, 7, 8

NS: 1.6.5 Communicate results and conclusions from scientific inquiry

PS: 6.6.4 Recognize and give examples of different types of forces: gravitational forces, magnetic forces, friction

6.6.7 Describe the effects of force: move a stationary object, speed up, slow down or change the direction of motion, change the shape of objects

Mirror Hall9, 10, 11, 12, 13, 14, 15, 16,
17, 18, 19, 20, 21, 22, 23

NS: 1.6.5 Communicate results and conclusions from scientific inquiry

Energy Island26, 27, 28, 29, 30, 31, 32,
33, 34, 35, 37

NS: 1.6.5 Communicate results and conclusions from scientific inquiry

1.6.9 Define and give examples of laws and theories

PS: 5.6.1 Identify common examples of chemical properties: ability to burn, ability to produce light, ability to react with other substances

5.6.2 Compare and contrast characteristics of physical and chemical properties

5.6.7 Identify characteristics of chemical changes: burning, production of a new substance, production of light, color change, endothermic and exothermic reactions, reactivity

6.6.4 Recognize and give examples of different types of forces: gravitational forces, magnetic forces, friction

6.6.7 Describe the effects of force: move a stationary object, speed up, slow down or change the direction of motion, change the shape of objects

6.6.8 Conduct investigations to demonstrate change in direction caused by force

6.6.9 Conduct investigations to calculate the change in speed caused by applying forces to an object

7.6.1 Classify examples of energy forms: chemical, electromagnetic, mechanical, thermal

7.6.2 Summarize the application of the law of conservation of energy in real world situations: electrical energy into mechanical energy; electrical energy into heat; chemical energy into mechanical energy; chemical energy into light

7.6.3 Conduct investigations demonstrating how energy can be converted from one form to another

Earth Science/Weather3, 46, 47, 48, 49, 50, 52,
53, 54, 55, 56

NS: 1.6.5 Communicate results and conclusions from scientific inquiry

ESS: 8.6.8 Compare and contrast the different land forms caused by Earth's internal forces: mountains, plateaus, trenches, islands

8.6.9 Research local, regional, and state landforms created by internal forces in the earth: Ozark Plateau, Crater of Diamonds, Ouachita Mountains, New Madrid Fault

8.6.13 Analyze how earthquake occurrences are recorded (seismograph) and measured (Richter scale)

Key: NS.1.6.1 = Nature of Science. Standard 1. 6th grade. 1st Student Learning Expectation. LS= Life Science. PS=Physical Science. ESS=Earth and Space Science

Matter Island

4, 24, 38, 39, 40, 41, 42,
43, 44, 45

NS: 1.6.5 Communicate results and conclusions from scientific inquiry
1.6.9 Define and give examples of laws and theories

PS: 5.6.2 Compare and contrast characteristics of physical and chemical properties
5.6.6 Use a density column to test the density of various solid objects (e.g., piece of candy, cork, candle, paper clip, egg)
7.6.2 Summarize the application of the law of conservation of energy in real world situations: electrical energy into mechanical energy; electrical energy into heat; chemical energy into mechanical energy; chemical energy into light

Virtual Reality Simulator Ride 2

NS: 1.6.5 Communicate results and conclusions from scientific inquiry

Tesla Coil/Van de Graaff Demonstration 58, 59

NS: 1.6.5 Communicate results and conclusions from scientific inquiry

Rowland Emmett's Chitty-Chitty Bang-Bang exhibits 1

NS: 1.6.5 Communicate results and conclusions from scientific inquiry

Nature Trail

NS: 1.6.5 Communicate results and conclusions from scientific inquiry

Underground Arkansas Cave 25

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