

**Structures**

5, 6, 7, 8

NS:1.3.1 Communicate observations orally, in writing, and in graphic organizers: T-charts, pictographs, Venn diagrams, bar graphs, frequency tables  
 1.3.2 Develop questions that guide scientific inquiry  
 1.3.6 Collect and analyze measurable empirical evidence as a team and/or as individuals  
 1.3.7 Make and explain predictions based on prior knowledge

PS: 5.3.1 Compare and contrast objects based on two or more properties

**Mirror Hall**9, 10, 11, 12, 13, 14,15, 16,  
17, 18, 19, 20, 21, 22, 23

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PS: 5.3.1 Compare and contrast objects based on two or more properties  
 7.3.1 Classify materials as those which can reflect, refract, or absorb light

**Underground Arkansas Cave**

25

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**Energy Island**26, 27, 28, 29, 30, 31, 32,  
33, 34, 35, 37

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 7.3.1 Classify materials as those which can reflect, refract, or absorb light  
 7.3.4 Differentiate between magnets and non-magnets  
 7.3.5 Describe the effect of distance on attraction and repulsion

**Key:** NS.1.3.1 = Nature of Science. Standard 1. 3rd grade. 1st Student Learning Expectation. LS= Life Science. PS=Physical Science. ESS=Earth and Space Science

**Virtual Reality Simulator  
Ride 2**

NS:1.3.2 Develop questions that guide scientific inquiry  
1.3.7 Make and explain predictions based on prior knowledge

**Earth Science/Weather  
3, 46, 47, 48, 49, 50, 52, 53,  
54, 55, 56**

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LS: 2.3.1 Classify animals as vertebrates and invertebrates according to their structure (see the earth worm exhibit vs. aquarium animals)

PS: 5.3.1 Compare and contrast objects based on two or more properties

ESS: 8.3.5 Identify areas in Arkansas that are the main sources of the following minerals: quartz crystal (see the rock crystal exhibit)

8.3.7 Identify common uses of rocks and minerals. (see the rock crystal exhibit)

9.3.1 Analyze the effect of wind and water on Earth's surface.

**Matter Island  
4, 24, 38, 39, 40, 41, 42, 43,  
44, 45**

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PS: 5.3.1 Compare and contrast objects based on two or more properties

5.3.2 Demonstrate physical changes in matter

5.3.3 Determine the mass of solids

5.3.4 Compare and contrast solids and liquids

7.3.1 Classify materials as those which can reflect, refract, or absorb light

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**Tesla Coil/Van de Graaff  
Demonstration**

58, 59

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

1

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**Nature Trail**

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PS: 5.3.1 Compare and contrast objects based on two or more properties

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