

Structures

5, 6, 7, 8

NS: 1.4.1 Communicate observations orally, in writing, and in graphic organizers: T-charts, pictographs, Venn diagrams, bar graphs, frequency tables, line graphs

1.4.2 Refine questions that guide scientific inquiry

1.4.7 Collect and interpret measurable empirical evidence in teams and as individuals

1.4.8 Develop a hypothesis based on prior knowledge and observations

PS: 6.4.1 Investigate the relationship between force and direction

6.4.2 Investigate the relationship between force and mass

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

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**Underground Arkansas
Cave**

25

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

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PS: 5.4.1 Demonstrate multiple ways to classify objects

6.4.1 Investigate the relationship between force and direction

6.4.2 Investigate the relationship between force and mass

Key: NS.1.4.1 = Nature of Science. Standard 1. 4th grade. 1st Student Learning Expectation. LS= Life Science. PS=Physical Science. ESS=Earth and Space Science

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

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1.4.7 Collect and interpret measurable empirical evidence in teams and as individuals

LS: 2.4.1 Classify vertebrates into major subgroups: mammals, birds, fish, amphibians, reptiles
2.4.2 Classify some invertebrates according to their structure: mollusks, segmented worms, arthropods

ESS: 8.4.1 Locate natural divisions of Arkansas: Ozark Plateau, Ouachita Mountains, Crowley's Ridge, Mississippi Alluvial Plain (Delta), Coastal Plain, Arkansas River Valley
9.4.1 Analyze changes to Earth's surface: erosion, earthquakes

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

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1.4.8 Develop a hypothesis based on prior knowledge and observations

PS: 5.4.1 Demonstrate multiple ways to classify objects
5.4.3 Compare and contrast gases to solids and liquids

Virtual Reality Simulator
Ride 2

NS: 1.4.2 Refine questions that guide scientific inquiry

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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

NS: 1.4.1 Communicate observations orally, in writing, and in graphic organizers: T-charts, pictographs, Venn diagrams, bar graphs, frequency tables, line graphs

LS: 2.4.1 Classify vertebrates into major subgroups: mammals, birds, fish, amphibians, reptiles
2.4.2 Classify some invertebrates according to their structure: mollusks, segmented worms, arthropods
4.4.1 Recognize environmental adaptations of plants and animals

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