

Science -- Benchmarks for Science Grade 2 By Theme

The 2nd grade science curriculum has been arranged into themes. It is recommended the benchmarks be taught in the clustered identified below.

| The following benchmarks are to be taught by all 2nd grade teachers in the Coloma Community School District. Required Assessments are listed. All 2 nd grade teachers will assess all students using the format and scoring guides (rubrics) specified in the assessment descriptions. | | | |
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| Theme | Standard | Benchmark | Assessm't Required |
| #1 Motion of Objects | IV.3.1 Motion of Objects | Describe and compare motion of common objects in terms of speed and direction. | Pictures/ Questions Test (Attached) |
| | IV.3.2 Motion of Objects | Explain how forces, pushes or pulls are needed to speed up, slow down, stop, or change the direction of a moving object | |
| | IV.3.4 Motion of Objects | Identify and use simple machines and describe how they change effort. | |
| | IV.3.5 Motion of Objects | Manipulate simple mechanical devices and explain how their parts work together. | |
| #2 Galaxy and Universe | V.4.1 Galaxy & Universe | Compare and contrast characteristics of the Sun, Moon, and Earth | Venn Diagram (Compare and Contrast) (Attached) |
| | V.4.2 Galaxy & Universe | Describe the motion of the Earth around the Sun and the Moon around the Earth | |
| #3 Evolution | III.4.1 Evolution | Explain how fossils provide evidence about the nature of ancient life. | |
| | III.4.2 Evolution | Explain how physical and behavior characteristics of animals help them to survive in their environments. | |
| #4 Ecosystems (it is recommended this unit be taught in the spring. | III.5.1 Ecosystems | Identify familiar organisms as part of a food chain or a food web and describe their feeding relationships within the web. | Picture/ Questions Test (Attached) |
| | III.5.3 Ecosystems | Design systems that encourage growing of particular plants or animals. | |
| | III.5.4 Ecosystems | Describe positive and negative effects of humans on the environment. | |
| #5 Atmosphere and Weather | V.3.1 Atmosphere and Weather | Describe weather conditions | |

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| | V.3.2 Atmosphere and Weather | Describe seasonal changes in Michigan's weather. | |
| #6 Waves and Vibrations | IV.4.2 Waves and Vibrations | Explain how sounds are made | Students will explain how shadows are made (Attached) |
| | IV.4.3 Waves and Vibrations | Use prisms and filters with light sources to produce various colors of light. | |
| | IV.4.4 Waves and Vibrations | Explain how shadows are made. | |
| #7 Heredity | III.3.1 Heredity | Give evidence that characteristics are passed from parents to young. | |
| #8 Life Science | III.2.1 Organization of Living Things | Explain characteristics and functions of observable body parts in a variety of animals. | |
| " | III.2.3 " | Describe life cycles of familiar organisms | |
| #9 Physical Science | IV.1.5 Changes in Matter | Describe possible electrical hazards to be avoided at home and at school. | |
| #10 Earth Science | V.1.4 Geosphere | Explain how rocks and fossils are used to understand the history of the Earth. | |

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