

## Science -- Benchmarks for First Grade By Theme

The 1<sup>st</sup> grade science curriculum has been arranged into 5 themes. It is recommended the benchmarks be taught in the clustered identified below.

<b>The following benchmarks are to be taught by all 1<sup>st</sup> grade teachers in the Coloma Community School District. Required Assessments are listed. All 1<sup>st</sup> grade teachers will assess all students using the format and scoring guides (rubrics) specified in the assessment descriptions.</b>			
<b>Theme</b>	<b>Standard</b>	<b>Benchmark</b>	<b>Assesmt Required</b>
<b>#1 PLANTS</b>	III.2.5 Org. of Living Things	Explain the functions of select seed plant parts.	<b>Benchmark Assessment</b>
“	III.5.3 Ecosystems	Design systems that encourage growing of particular plants or animals	
<b>#2 ANIMALS: Vertabrates&amp; Invertabrates</b>	III.2.1 Org of Living Things	Explain characteristics and functions of observable body parts in a variety of animals.	
“	III.2.2 Org Of Living Things	Compare and contrast (K-2) familiar organisms on the basis of observable physical characteristics.	
“	III.3.1 Heredity	Give evidence that characteristics are passed from parents to young.	
<b>#3 GENERAL KNOWLEDGE</b>	IV.1.1 Matter & Energy	Classify common objects and substances according to observable attributes/properties.	
“	IV.1.2 Matter & Energy	Identify properties of materials which make them useful.	
“	V.1.1 - Geosphere	Describe major features of the Earth’s surface.	
<b>#4 WATER AND WEATHER</b>	IV.2.1 Changes in Matter	Describe common physical changes in matter: size, shape, melting, freezing	<b>Benchmark Assessment</b>
“	V.2.2 Hydrosphere	Trace the path that rain water follows after it	
“	V.2.3 Hydrosphere	Identify sources of water and its uses.	
“	V.2.1. Hydrosphere	Describe how water exists on Earth in three states	
“	V.3.1 Atmosphere and Weather	Describe weather conditions	
“	V.3.3. Atmosphere and Weather	Explain appropriate safety precautions during severe weather.	
“	III.5.4 Ecosystems	Describe positive and negative effects of humans on the environment.	

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Theme (con't)	Standard	Benchmark	
<b>#5 SIMPLE MACHINES</b>	IV.2.2 Changes in Matter	Prepare mixtures and separate them into their component parts.	
“	IV.3.1 Motion of Objects	Describe and compare motion of common objects in terms of speed and direction.	<b>Benchmark Assessment</b>
“	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.	

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