

DRAFT

First Grade

The Five Unifying Themes of Helena School District #1 Science Students.

The Unifying Themes outline the major skills, concepts, facts, or processes that students need to master or demonstrate proficiency in by the completion of the grade level or course. Unifying Themes do not supplant or replace the curriculum, but list identified skills, concepts, facts, or processes presented in full within the curriculum that are foundational to future learning. They are a quick way to see the enduring and essential understandings presented fully in the curriculum that students need to acquire for life. They represent overarching themes that should be emphasized and reemphasized over and over again through out any given grade level as well as transcend a students' entire science education.

1. Problem Solving

- ❖ Collaborate in a group to perform a simple investigation

2. Measurements/Technology

- ❖ Identify appropriate measurement tools
- ❖ Identify and explain technologies used in school

3. Classification/Grouping

- ❖ Identify plants and animals by size, shape
- ❖ Identify needs and uses of both
- ❖ Demonstrate knowledge of Earth and objects in space
- ❖ Characteristics of magnets
- ❖ Demonstrate experiences with light, magnetism and motion

4. Models/Systems

- ❖ Life cycle of plants and animals
- ❖ Food chain

5. Communication/Vocabulary

- ❖ Observe, tell, record scientific investigation
- ❖ Recognizes that science can help us understand our local problems