



SCHOOL DISTRICT 12

GRADE 1 SCIENCE OUTCOMES

The Centennial School District Science Curriculum is aligned with Minnesota Academic Standards. First Grade science outcomes build on previous experiences and prepare students for grade 2 expectations. **Science; A Closer Look**, published by Macmillan/McGraw-Hill in 2011, is our core curriculum for grades K-5. This program uses a "5 E" lesson plan format which cycles Engagement, Exploration, Explanation, Elaboration and Evaluation throughout the required content. In addition, this series offers technology components, math integration resources, and leveled readers to meet the needs of all learners at Centennial ISD 12.

Nature of Science and Engineering

- When asked "How do you know?" students support their answer with observations.
- Recognize that describing things as accurately as possible is important in science because it enables people to compare their observations with those of others.
- Observe that many living and nonliving things are made of parts and that if a part is missing or broken, they may not function properly.
- Recognize that tools are used by people, including scientists and engineers, to gather information and solve problems.

Earth and Space Science

- Group or classify rocks in terms of color, shape and size.
- Describe similarities and differences between soil and rocks.
- Identify and describe large and small objects made of Earth materials.

Life Science

- Describe and sort animals into groups in many ways, according to their physical characteristics and behaviors.
- Recognize that animals need space, water, food, shelter and air.
- Describe ways in which an animal's habitat provides for its basic needs.
- Demonstrate an understanding that animals pass through life cycles that include a beginning, development into adults, reproduction and eventually death.
- Recognize that animals pass through the same life cycle stages as their parents.