

2nd Grade Matter Unit

Benchmarks

Chapter 1: The Nature of Science

Scientific Inquiry

1B(K-2)#1: People can often learn about things around them by just observing those things carefully, but sometimes they can learn more by doing something to the things and noting what happens.

1B(K-2)#3: Describing things as accurately as possible is important in science because it enables people to compare their observations with those of others.

The Scientific Enterprise

1C(K-2)#2: In doing science, it is often helpful to work with a team and to share findings with others. All team members should reach their own individual conclusions, however, about what the findings mean.

Chapter 3: The Nature of Technology

Technology and Science

3A(K-2)#1: Tools are used to do things better or more easily and to do some things that could not otherwise be done at all. In technology, tools are used to observe, measure, and make things.

Chapter 4: The Physical Setting

The Earth

4B(K-2)#2: Water can be a liquid or a solid and can be made to go back and forth from one form to the other. If water is turned into ice and then the ice is allowed to melt, the amount of water is the same as it was before freezing.

4B(K-2)#3: Water left in an open container disappears, but water in a closed container does not disappear.

Processes That Shape the Earth

4C(K-2)#2: Change is something that happens to many things.

The Structure of Matter

4D(K-2)#1: Objects can be described in terms of the materials they are made of (clay, cloth, paper, etc.) and their physical properties (color, size, shape, weight, texture, flexibility, etc.).

4D(K-2)#2: Things can be done to materials to change some of their properties, but not all materials respond the same way to what is done to them.

Chapter 11: Common Themes

Constancy and Change

11C(K-2)#1: Things change in some ways and stay the same in some ways.

Chapter 12: Habits of Mind

Computation and Estimation

12B(K-2)#1: Use whole numbers and simple, everyday fractions in ordering, counting, identifying, measuring, and describing things and experiences

Communication Skills

12D(K-2)#2: Draw pictures that correctly portray at least some features of the thing being described.

Critical-Response Skills

12E(K-2)#1: Ask “How do you know?” in appropriate situations and attempt reasonable answers when others ask them the same question.