

Grade 1 Side-by-Side

exas Education Agen

2021 K 715.1.4 (

SCIENCE.1.1.A ask questions ~~and define problems based on observations or information from text, phenomena, models, or investigations;~~

SCIENCE.1.1.B ~~use scientific practices to plan and conduct simple descriptive investigations~~
~~use engineering practices to design solutions to problems~~

SCIENCE.1.1.C identify, describe, and demonstrate safe practices during classroom ~~field~~
investigations as outlined in Texas Education Agency-approved safety standards;

1.2.A ask questions ~~about organisms, objects, and events observed in the natural world;~~

1.2.B plan and conduct simple descriptive investigations;

1.1.A identify, discuss, and demonstrate ~~safe~~ ~~healthy~~ practices as outlined in Texas Education Agency-approved safety standards during classroom ~~and out-~~ investigations, ~~including wearing safety goggles or chemical splash goggles, as appropriate, washing hands, and using materials appropriately;~~ and

1.4 Scientific ~~investigation and reasoning~~ The student uses ~~age-appropriate~~ tools and models to ~~investigate the natural world~~ The student is expected to
CID 25d (t)6.1 (o)1.4:4

SCIENCE.1.2.B analyze data by identifying significant features and patterns;

SCIENCE.1.2.C use mathematical concepts to compare two objects with common attributes; and

SCIENCE.1.2.D evaluate a design or object using criteria to determine if it works as intended.

SCIENCE.1.3 Scientific and engineering practices. The student develops evidence-based explanations and communicates findings, conclusions, and proposed solutions. The student is expected to:

SCIENCE.1.3.A develop explanations and propose solutions supported by data and models

SCIENCE.1.3.B communicate explanations and solutions individually and collaboratively in a variety of settings and formats; and

SCIENCE.1.3.C listen actively to others' explanations to identify relevant evidence and engage respectfully in scientific discussion.

SCIENCE.1.4 Scientific and engineering practices. The student knows the contributions of scientists and recognizes the importance of scientific research and innovation in society. The student is expected to:

SCIENCE.1.4.A explain how science or an innovation can help others; and

SCIENCE.1.4.B identify scientists and engineers such as Katherine Johnson, Sally Ride, and Ernest Rutherford and explain what different scientists and engineers do.

SCIENCE.1.5 Recurring themes and concepts. The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:

SCIENCE.1.5.A identify and use patterns to describe phenomena or design solutions;

SCIENCE.1.5.B investigate and predict cause-and-effect relationships in science;

SCIENCE.1.5.C

1.3.B ~~make predictions based on observations~~ patterns; and

1.4.B ~~measure and compare organisms and objects using non-standard units~~

1.3.A ~~identify and explain a problem and~~ propose a solution;

4.2.E ~~communicate observations and provide reasons for explanations using student-generated data~~ simple descriptive investigations

4.3.C ~~describe~~ what scientists do.

Students are now being asked to communicate not only as scientists but also as engineers.

SCIENCE.1.6.A classify objects by observable physical properties ~~including~~ shape, color, and texture, and attributes such as larger and smaller and heavier and lighter;

SCIENCE.1.6.B explain and predict changes in materials caused by heating and cooling; and

SCIENCE.1.6.C demonstrate and explain that a whole object is a system made of organized parts such as a toy that can be taken apart and put back together.

SCIENCE.1.7 Force, motion, and energy. The student knows that forces cause changes in motion and position in everyday life. The student is expected to:

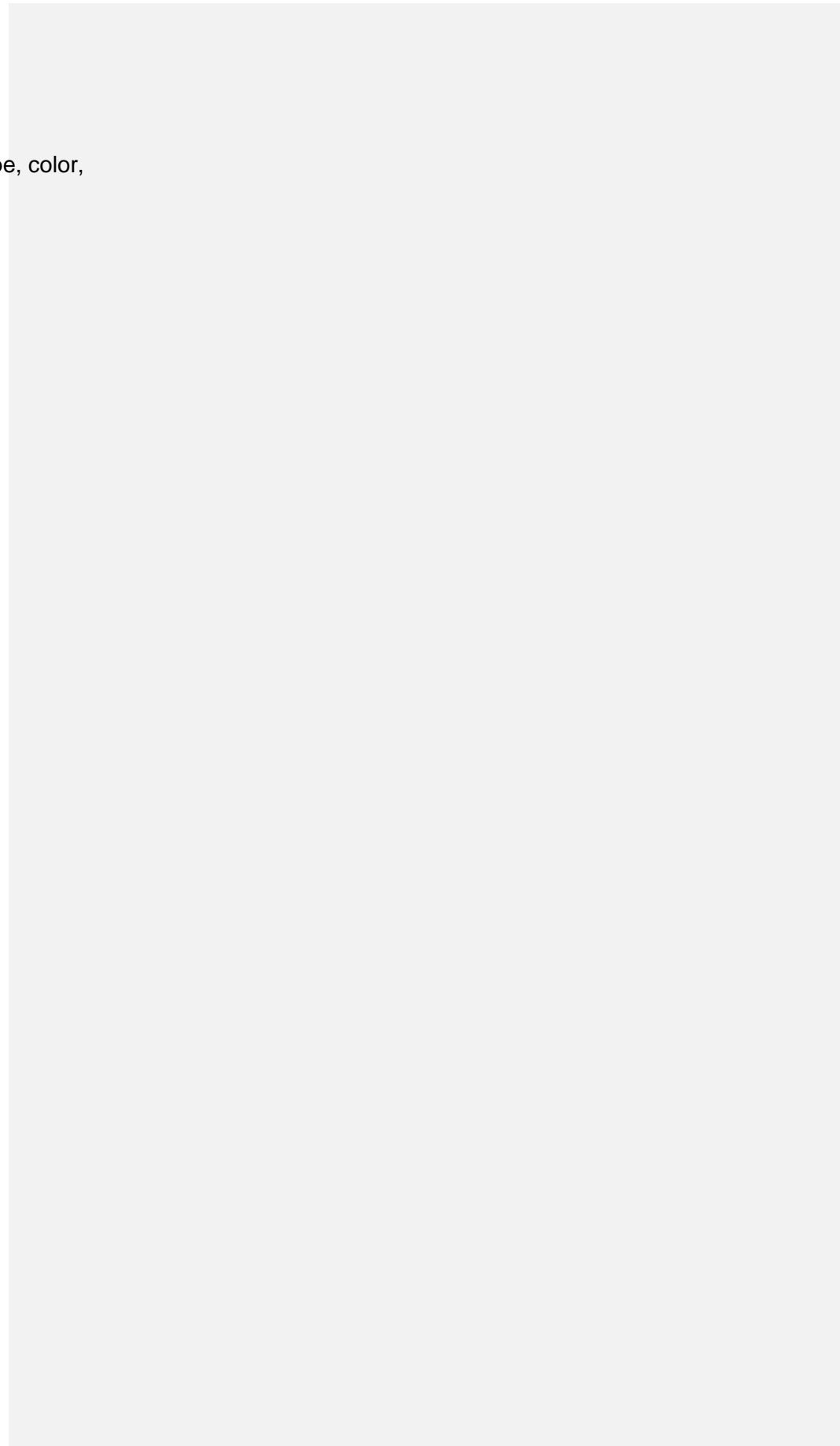
1.5 Matter and ~~energy~~. The student knows that objects have properties and ~~patterns~~. The student is expected to:

1.5.C classify objects ~~by the materials from which they are made~~.

1.5.A classify objects by observable properties such as larger and smaller, heavier and lighter, shape, color, and texture;

1.5.B predict and ~~identify~~ changes in materials caused by heating and cooling;

1.192 289 >>BDC /TT1 1 Tf -0.001 Tc 0.004 SCIENCE.1.7s



SCIENCE.1.10.C [compare the properties of puddles, ponds, streams, rivers,](#)

