

Earth Sciences - 3rd Grade I Can Statements

Processes, Content Statements & Expectations (Disciplinary Knowledge)	I Can Statement
Earth Science – Earth Systems	
E.ES.E.4 Natural Resources- The supply of many natural resources is limited. Humans have devised methods for extending their use of Natural Resources through recycling, reuse and renewal.	
E.ES.03.41 Identify natural resources (metals, fuels, fresh water, and forests)	I can identify natural resources (metals, fuels, fresh water, and forests)
E.ES.03.42 Classify renewable (freshwater, fertile soils, forest) and non-renewable (fuels, metals) resources.	I can identify renewable natural resources (freshwater, fertile soils, forest). I can identify non-renewable resources (fuels and metals)
E.ES.03.43 Describe ways humans are protecting extending and restoring resources (recycle, reduce, reuse) and renewal.	I can identify how humans protect, extend and restore natural resources (recycle, reuse, reduce, renew).
E.ES.03.44 Recognize that paper, metal, glass and some plastics can be recycled.	I can name materials that can be recycled (metal, paper, glass and some plastics)
E.ES.E.5 Human Impact – Humans depend on their natural and constructed environment. Humans change environments in ways that are helpful or harmful for themselves and other organisms.	
E.ES.03.51 Describe ways humans are dependent on the natural environment (forest, water, clean air, earth materials) and constructed environments(homes, neighborhoods, shopping malls, factories and industry)	I can identify/describe how humans need their natural environment (forest, water, clean air, earth materials) I can identify/describe ways that humans need constructed environments (homes, neighborhoods, shopping malls, factories and industry)
E.ES.03.52 Describe helpful or harmful effects of humans on the environment (garbage, habitat destruction, land management, renewable and non-renewable resources)	I can give examples of ways humans need their environment. I can give examples of ways humans hurt their environment.
Solid Earth	

E.SE.E.1 Earth Materials – Earth material that occur in nature include rocks, minerals, soils, water and the gasses of the atmosphere. Some earth materials have properties which sustain plant and animal life.	
E.SE.03.13 Recognize and describe different types of earth materials (minerals, rocks, clay, boulder, gravel, sand, soil, water and air)	I can give examples of different earth materials such as (minerals, rocks, clay, boulder, gravel, sand, soil, water and air)
E.SE.03.14 Recognize that rocks are made up of minerals.	I can understand rocks are made up of minerals.
E.SE.E.2 Surface Changes – The surface of Earth changes. Some changes are due to slow process, such as erosion and weathering and some changes are due to rapid processes, such as landslides, volcanic eruptions, and earthquakes.	
E.SE.03.22 Identify and describe natural causes of change in the Earth’s surface (erosion, glaciers, volcanoes, landslides, and earthquakes)	I can give examples of natural causes of changes to the earth’s surface (erosion, glaciers, volcanoes, landslides, and earthquakes)
E.SE.E.3 Using Earth material – Some Earth materials have properties that make them useful either in their present form or designed and modified to solve human problems. They can enhance the quality of life as in the case of materials used for building or fuels used for heating and transportation.	
E.SE.03.31 Identify Earth materials used to construct some common objects (bricks, buildings, roads and glass)	I can identify earth materials used to build objects (bricks, buildings, roads and glass)
E.SE.03.32 Describe how materials taken from the earth can be used as fuels for heating and transportation.	I can identify earth materials used as fuels for heating and transportation.

Inquiry Process	Learning Targets
S.IP.03.11 Make purposeful observations of earth materials to describe them in terms of color, particle, size, texture, and ability to hold water.	I can describe earth materials by color, particle, size, texture, and ability to hold water.
S.IP.03.11 Make purposeful observations of rocks and minerals to determine that rocks are made up of minerals.	I can use observations to determine rocks are made up of minerals.
S.IP.03.12 Generate questions based on observations of earth materials.	I can ask questions to better understand earth materials.
S.IP.03.13 Plan and conduct simple and fair investigations to determine the ability of earth materials to hold water.	I can do experiments to find which of Earth's materials hold water.
S.IP.03.14 Manipulate simple tools that aid observation and data collection (hand lens, balance, scale, graduated cylinder, stop watch/timer).	I can use tools to collect information (hand lens, balance, scale, graduated cylinder, stop watch/timer).
S.IP.03.15 Make accurate measurements with appropriate units (grams, centimeters, milliliters, minutes, seconds) for the measuring tool.	I can use tools to measure (grams, centimeters, milliliters, minutes, seconds).
S.IP.03.16 Construct simple charts and graphs from data and observations generated in Earth material investigation.	I can make charts/graphs to collect information about Earth's materials.
Inquiry Analysis and Communication	
S.IA.03.11 Summarize information from charts and graphs to determine the ability of a variety of earth materials to hold water.	I can use tables/graphs to answer questions about earth's materials that hold water.

S.IA.03.12 Share ideas about earth materials through purposeful conversation in collaborative groups.	I can discuss with a group my ideas about earth materials
S.IA.03.13 Communicate and present findings of observations and investigations into earth materials.	I can present my observations about earth materials.
S.IA.03.14 Develop research strategies and skills for information gathering to find out about a variety of earth materials that are used to construct common items and used as fuels for heating and transportation.	I can read and understand text to gather information about a variety of earth materials used as fuels for heating and transportation. I can read and understand text to gather information about earth materials used to construct common items.
S.IA.03.15 Compare and contrast sets of data from multiple trials of the earth material investigation to explain reasons for differences.	I can use information from experiments with earth materials to explain their differences.
Reflection and Social Implications	
S.RS.03.11 Use data/samples as evidence to separate fact from opinion regarding the ability of different earth materials to hold water.	I can examples to separate fact from opinion of earth materials that can hold water.
S.RS.03.12 Use evidence when communicating findings from earth material investigations.	I can use examples to show my findings from earth material experiments.
S.RS.03.13 Demonstrate how earth materials are used to construct some common objects and are taken from the Earth as fuels for heating and transportation though illustrations and models.	I can illustrate/model how earth materials are used to build objects. I can illustrate/model how earth materials are used as fuels for heating and transportation.
S.RS.03.14 Identify technology used to find and remove earth materials to be used for building and fuel.	I can explain how technology can be used to find, remove, and use earth materials for building and fuel.
S.RS.03.16 Describe the effect humans have on the balance of the natural world through the used of earth materials.	I can tell how humans have affected the natural world when using earth materials.