

	Quarter: 1 Length: 40	Quarter 2	Quarter 3	Quarter 4
C4 I	days	1 · e C ·	ni · ic·	DI LE
Strand	Earth and Space	Life Science	Physical Science	Physical Science
Торіс	Earth's Surface :This topic focuses on the variety of processes that shape and reshape Earth's surface	Earth's Living History: This topic focuses on using fossil evidence and living organisms to observe that suitable habitats depend upon a combination of biotic and abiotic factors.	Electricity, Heat and Matter: This topic focuses on the conservation of matter and the processes of energy transfer and transformation, especially as they apply to heat and electrical energy.	Electricity, Heat and Matter: This topic focuses on the conservation of matter and the processes of energy transfer and transformation, especially as they apply to heat and electrical energy.
Content				
Statement	4.ESS1: Earth's surface has specific characteristics and landforms that can be identified. About 70 percent of the Earth's surface is covered with water and most of that is the ocean. Only a small portion of the Earth's water is freshwater, which is found in rivers, lakes, groundwater and glaciers. Earth's surface can change due to erosion and deposition of soil, rock or sediment. Catastrophic events such as	4.LS.1: Changes in an organism's environment are sometimes beneficial to its survival and sometimes harmful. Ecosystems can change gradually or dramatically. When the environment changes, some plants and animals survive and reproduce and others die or move to new locations. Ecosystems are based on interrelationships among and between biotic and abiotic factors. These include the diversity of other organisms present, the availability of	4.PS.1: When objects break into smaller pieces, dissolve, or change state, the total amount of matter is conserved. When an object is broken into smaller pieces, when a solid is dissolved in a liquid or when matter changes state (solid, liquid, gas), the total amount of matter remains constant.	4.PS.2: Energy can be transferred from one location to another or can be transformed from one form to another. Energy transfers from hot objects to cold objects as heat, resulting in a temperature change. Electric circuits require a complete loop of conducting materials through which electrical energy can be
	flooding, volcanoes and earthquakes can create landforms. 4.ESS.2: The surface of Earth changes due to weathering. Rocks change shape, size and/or form due to water or glacial movement, freeze	food and other resources, and the physical attributes of the environment. 4.LS.2: Fossils can be compared to one another and to present-day organisms according to their similarities and differences. The concept of biodiversity	4.PS.2: Energy can be transferred from one location to another or can be transformed from one form to another. Energy transfers from hot objects to cold objects as heat, resulting in a temperature change. Electric circuits require a	
	and thaw, wind, plant growth, acid rain, pollution and catastrophic events such as earthquakes, flooding, and volcanic activity.	is expanded to include different classification schemes based upon shared internal and external characteristics of organisms. Most	complete loop of conducting materials through which electrical energy can be transferred. Electrical energy in circuits can be	

	4.ESS.3: The surface of Earth changes due to erosion and deposition. Liquid water, wind and ice physically remove and carry rock, soil and sediment (erosion) and deposit the material in a new location (deposition). Gravitational force affects movements of water, rock and soil.	species that have lived on Earth are extinct. Fossils provide a point of comparison between the types of organisms that lived long ago and those existing today.	transformed to other forms of energy, including light, heat, sound and motion. Electricity and magnetism are closely related.	
Resources	Inspire McGraw HillODE Model Curriculum	Inspire McGraw HillODE Model Curriculum	Inspire McGraw HillODE Model Curriculum	Inspire McGraw HillODE ModelCurriculum
STEAM	STEAM Everywhere https://www.youtube.com/watch? y=BLMsgeyhVWc	STEAM Everywhere https://www.youtube.com/watch?v= BLMsgeyhVWc	STEAM Everywhere https://www.youtube.com/watc h?v=BLMsgeyhVWc	STEAM Everywhere https://www.youtube.com/wa tch?v=BLMsgeyhVWc
	STEAM Careers https://www.youtube.com/watch? v=qyrQI1Yk8Ug	STEAM Careers https://www.youtube.com/watch?v=qyrQI1Yk8Ug	STEAM Careers https://www.youtube.com/watc h?v=qyrQI1Yk8Ug	STEAM Careers https://www.youtube.com/watch?v=qyrQI1Yk8Ug
Notes			*4PS.1 Differentiation between mass and weight is not necessary at this grade level.	
Vocabulary				

SCIENCE INQUIRY AND APPLICATIONS

During the years of K to grade 4, all students must develop the ability to:

- **SIA 1**:Observe and ask questions about the natural environment;
- **SIA 2:** Plan and conduct simple investigations;
- **SIA 3:**Employ simple equipment and tools to gather data and extend the senses;
- **SIA 4:** Use appropriate mathematics with data to construct reasonable explanations;
- **SIA 5:** Communicate about observations, investigations and explanations;

4th Grade

Science

2021-2022

SIA 6:Review and ask questions about the observations and explanations of others