

Marking Period 1 (43 Days)

Science Safety

1. Safety in Science **(1 day)**
 - Safety in the Lab (page xvii)
 - Safety in the Field (page xviii)
 - Safety Symbols (page xix)
 - Safety Quiz (page xx)

Engineering and Technology **{3-5-ETS1-1-3}**

1. How Are Science and Math Used in Engineering? **(7 days)**
 - Engineering and technology.
 - Engineering and math.
2. What Is the Design Process? **(6 days)**
 - Engineering design process
3. How Does Technology Affect Society? **(7 days)**
 - Evolution and development of technology.
 - Positive and negative consequences of technology.

Matter **{5-PS1-1-3}**

1. What is Matter?**(7 days)**
 - All objects are made matter
 - States of matter
 - Measure matter
2. What are Properties of Matter **(8 days)**
 - Properties of matter
 - Physical properties.
 - Mixtures and solutions
3. How Does Matter Change? **(7 days)**
 - Physical and chemical changes
 - Conservation of matter.

Marking Period 2 (47 Days)

Energy and Matter in Organisms **{5-LS1-1, 5-PS3-1}**

1. How Does Energy Get Transformed by Plants? **(9 days)**
 - Plants acquire material for growth mainly from air and water.
2. How Do Organisms Use Matter and Energy? **(10 days)**
 - Animals need food for the materials necessary for body growth and repair.
 - They obtain gasses and water from the environment.
 - Waste matter (gas, liquid, or solid) back into the environment.
3. How Do Organisms Interact? **(9 days)**
 - How organisms interact and survive in environments where their needs are met.

Energy and Matter in Ecosystems **{5-LS2-1}**

1. How Does Energy and Matter Move through Ecosystems? **(10 days)**
 - How the flow and energy derived from the sun is transferred as matter.
 - Food chain
 - Food web
 - Consumers and decomposers.
 - Energy Pyramid
2. How Do Organisms Change Their Ecosystems? **(9 days)**
 - Invasive Species

Marking Period 3 (48 Days)

Systems in Space **{5-PS2-1, 5-ESS1-1, 5-ESS1-2}**

1. How Does Gravity Affect Matter on Earth? **(6 days)**
 - Gravity of Earth pulls objects toward the planet's center.
 - Earth is a sphere
 - Gravity causes objects to move towards Earth's center.
2. What Daily Patterns Can Be Observed? **(7 days)**
 - Daily patterns caused by interactions of bodies in the solar system.
 - The path of the sun across the day sky.
 - The movement of constellations in the night sky.
 - Hours of the sun.
3. What Daily Patterns Can Be Observed in a Year? **(7 days)**
 - Earth's orbits around the sun
 - Moon's orbits around the Earth.
 - Earth's orbit and the moon's orbit cause predictable patterns.
4. What is the Sun? **(7 days)**
 - The Sun appears larger and brighter than other stars due to its distance from Earth through: models that show scale, proportion and quantity.

Earth Systems **{5-ESS2-1, 5-ESS2-2}**

1. What Are Earth's Major Systems? **(7 days)**
 - Earth's systems and the cycles that occur within them.
2. How Do Earth Systems Interact? **(7 days)**
 - How Earth systems interact.
3. What Is the Role of the Ocean in Earth's Systems? **(7 days)**
 - Water on Earth.
 - Effects of the oceans on landforms, climates and ecosystems.

Marking Period 4 (42 Days)

Earth and Human Activities **{5-ESS3-1}**

1. How Does Resources Use Affect Earth? **(21 days)**
 - How people affect Earth's resources.
2. How Can People Protect the Environment? **(21 days)**
 - Reducing, reusing and recycling.
 - Other ways people can protect the environment.
 - Technologies and ideas used to help protect Earth's resources and environments.