

## Trimester 1 (60 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. Engineering and Society **(18 days)**
  - Engineer It - What Makes a Good Toy Car?
  - Engineer It - Improving Toy Cars
  - Engineering and Society
  - Technology, Engineering and Science
  - How Do Engineers Solve Problems?
  - Improving Over Time

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

1. Matter Has Mass and Volume **(9 days)**
  - Measuring Mass and Volume
  - Evidence of Matter
  - A Matter of Particles
2. Matter Has Many Properties **(9 days)**
  - So Many Properties
  - Engineer It - Beat the Heat
  - What Matter Can Do
3. Matter Can Change **(12 days)**
  - Changes in Matter
  - Which Will React?
  - When Matter Changes
  - Conservation of Matter

**(\*\* 11 Extra Days for STEM Activities)**

## Trimester 2 (60 Days)

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

1. Plants Transform and Use Energy and Matter **(12 days)**
  - A Tree in a Forest
  - Needs for Growth
  - Plant Needs
  - Making Food
2. Organisms Use Matter and Energy **(12 days)**
  - A Filling Morsel
  - Where's the Heat?
  - Growth, Change and Regrowth
  - Animal Energy
3. Energy and Matter Move Between Organisms **(12 days)**
  - Modeling Matter Moving Within an Ecosystem
  - Break it Down
  - Moving Energy and Matter
  - Following Matter and Energy

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

1. Organisms Interact in Ecosystems **(12 days)**
  - What's Out There?
  - Environmental Matters
  - Living Things and Their Environment
  - Competition in Ecosystems
2. Organisms Change Their Ecosystems **(12 days)**
  - Invasion!
  - Engineer it - Balance Restored
  - Introduced and Invasive Species

Trimester 3 (60 Days)

Earth Interactions and Resources **{5-ESS2-1, 5-ESS2-2}**

1. **Earth's Systems Interact (9 days)**
  - Earth Materials Form Systems
  - Interactions of Systems Shape Landforms
  - Earth's Major Systems
  - Natural Events Connect Systems
2. **Water in Earth's Systems (9 days)**
  - Water Moves among Earth's Systems
  - Water Stores Heat
  - Earth's Water Sources
  - Water and Earth's Surface

Patterns in the Sky **{5-PS2-1, 5-ESS1-1, 5-ESS1-2}**

1. **Gravity Affects Matter on Earth (9 days)**
  - An Ant's View of the World
  - A Trip around the World
  - An Attractive Sphere
2. **Sky Patterns Over Time (9 days)**
  - Shadows
  - The Nights Moves
  - Objects in the Sky
  - What Patterns Do the Sun and Moon Cause During the Year?
3. **The Sun (9 days)**
  - Glowing Light
  - Color Provides the Final Clue
  - How Does Distance Affect the Apparent Size of Objects?
  - What Are the Sun's Characteristics?

Earth Interactions and Resources **{5-ESS2-1, 5-ESS2-2}**

3. **Resource Use Affects the Environment (8 days)**
  - Engineer It - Squeaky Clean Water
  - Getting to a Resource
  - Earth's Resources and Human Activities
  - Getting and Using Resources
4. **People Can Protect the Environment (7 days)**
  - Engineer It - Pocket Park
  - Engineer It - Reusing at Home
  - Conservation's Three Rs
  - Conservation and Protect the Environment