

## Quarter 1

## Nature of Science

- Raise questions about the natural world
- Compare the observations made by others
- Keep appropriate records of investigations
- Recognize the importance of communication
- Recognize that scientist question each other's evidence
- Infer based on observations
- Explain empirical evidence is information the help validate explanations
- Recognize that words in science can have different meanings
- Recognize that scientists use models
- Recognize that all models are approximations of natural phenomena

## Quarter 2

## Physical Science

- Measure and compare temperatures of solids and liquids
- Measure and compare volume of solids and liquids
- Compare objects according to properties
- Describe the changes that water undergoes through heating and cooling
- Identify some basic forms of energy
- Recognize that energy causes motion or creates change
- Demonstrate how light travels
- Demonstrate how light can behave
- Investigate and explain that things that give off light also gives off heat
- Investigate and explain how heat can be produced

### Quarter 3

#### Earth Science

- Explain that stars can be different
- Identify the Sun as a star that emits energy
- Recognize that Sun appears large and bright
- Explore the Law of Gravity and how it can be overcome
- Investigate the numbers of stars that can be seen through telescopes
- Demonstrate radiant energy from the sun

### Quarter 4

#### Life Science

- Describe structures in plants and their roles
- Investigate and describe how plants respond to stimuli
- Classify animals into major groups
- Classifying flowering and nonflowering plants into major groups
- Describe how animals and plants respond to changing seasons
- Recognize that plants use energy to make food