Brandon Valley School District
Science
Scope and Sequence
Grade: 3

Quarter 1

Timeline (month/days)	Standard(s)
September & October 18 days	**Power of Flowers - Life Science** **3-LS3-1** Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variations of these traits exist in a group of similar organisms. **3-LS3-2** Use evidence and reasoning to support the explanation that traits can be influenced by the environment. **Animals Through Time - Life Science** **3-LS4-2** Use evidence and reasoning to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing. **3-LS4-1** Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago. **3-LS2-1** Construct an argument that some animals form groups that help members survive.

Quarter 2

Timeline (month/days)	Standard(s)
End October/Nov. through January 20 days	**Animals Through Time - Life Science** **3-LS4-2** Use evidence and reasoning to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing. **3-LS4-1** Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago. **3-LS2-1** Construct an argument that some animals form groups that help members survive. **3-LS1-1** Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death. **3-LS4-4** Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change. **3-LS4-3** Construct an argument with evidence how some organisms thrive, some struggle to survive, and some cannot survive in a particular habitat.

Quarter 3

Timeline (month/days)	Standard(s)
February & March 17 days	**Invisible Forces - Physical Science** **3-PS2-1** Plan and carry out an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object.

	3-PS2-2 Make observations and/or measurements of an object's motion to provide evidence for how a pattern can be used to predict future motion. **3-PS2-3** Ask questions about cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other. **3-PS2-4** Define a simple design problem that can be solved by applying scientific ideas about magnets.

Quarter 4

Timeline (month/days)	Standard(s)
April & May 13 days	**Weather and Climate - Earth Science** **3.ESS2.1** Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season **3.ESS3.1** Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard. **3.ESS2.2** Obtain and combine information to describe climates in different regions of the world.

*Pink-priority, Yellow-supporting, Green-supplementary.
*30 minutes/twice a week class periods

Notes Q1 (common curriculum materials - vendor/pg number, common assessments, common intervention/enrichment activities, other) **(6 Mysteries)**

- Mystery Science: Power of Flowers
  - Mystery 1: Pollination and Plant Reproduction
    - Mystery 1 Assessment
  - Mystery 2: Seed Dispersal and Plant Life Cycles
    - Mystery 2 Assessment
  - Mystery 3: Trait Variation, Inheritance and Artificial Selection (Why are some apples red and some green?)
    - Mystery 3 Assessment
  - Mystery 4: Trait Variation, Inheritance and Artificial Selection (How could you make the biggest fruit in the world?)
    - Mystery 4 Assessment
- Mystery Science: Animals Through Time
  - Mystery 1: Habitats, Fossils and Environments Over Time
    - Mystery 1 Assessment
  - Mystery 2: Fossil Evidence and Classification
    - Mystery 2 Assessment (continue into Q2)

Notes Q2 (5 Mysteries)

- **Continue Animals Through Time**
  - Mystery 3: Fossil Evidence, Trace Fossils, and Animal Behavior
    - Mystery 3 Assessment
  - Mystery 4: Trait Variation, Inheritance, & Artificial Selection
    - Mystery 4 Assessment
  - Mystery 5: Trait Variation, Natural Selection, & Survival
    - Mystery 5 Assessment
  - Mystery 6: Animal Groups & Survival
    - Mystery 6 Assessment
- Mystery 7: Environmental Change & Engineering
    - Mystery 7 Assessment

Notes Q3 (6 Mysteries)

- **Continue Animals Through Time**
  - Mystery 8: Traits & Environmental Variation
    - Mystery 8 Assessment
- **Mystery Science: Invisible Forces**
  - Mystery 1: Balanced & Unbalanced Forces
    - Mystery 1 Assessment
  - Mystery 2: Balanced Forces & Engineering
    - Mystery 2 Assessment
  - Mystery 3: Friction and Pattern of Motion
    - Mystery 3 Assessment
  - Mystery 4:Magnets & Forces
    - Mystery 4 Assessment
  - Mystery 5: Magnets & Engineering
    - Mystery 5 Assessment

Notes Q4 (4 Mysteries)

- Mystery Science: Weather and Climate
  - Mystery 1: Water Cycle & Phases of Matter
    - Mystery 1 Assessment
  - Mystery 2: Local Weather Patterns & Weather Prediction
    - Mystery 2 Assessment
  - Mystery 3: Climate, Geography, & Global Weather Patterns
    - Mystery 3 Assessment
  - Mystery 4: Natural Hazards & Engineering
    - Mystery 4 Assessment

**Transcripts available on Mystery Science website