

## **Grade 5**

### **Key Concepts listed by Unit**

#### **Variables**

- A variable is anything that you can change in an experiment that might affect the outcome
- In a controlled experiment only one variable is changed, and the results are compared to a standard
- In a controlled experiment, the experimental variable is changed incrementally to see how it affects the outcome

#### **Microworlds**

- A lens must be transparent and curved to magnify
- Higher magnification reveals more detail, but in a smaller area
- Some living things are too small to be seen without magnification
- Use a hand lens and microscope properly

#### **Food Chemistry**

- Carbohydrates, proteins, fats, water, vitamins and minerals are nutrient and are essential to human life
- Perform chemical and physical tests to identify the presence or absence of nutrients in foods

#### **Ecosystems**

- An ecosystem is a community of organisms interacting with their environment
- Organisms have dependent and interdependent relationships that can be characterized by food webs
- Factors that affect organisms include light, water, temperature and soil
- Pollutants are anything that can harm organisms when released into an ecosystem in too large a quantity
- Use a hand lens, pH paper, measuring devices and other appropriate testing equipment