

Science
2010-2011

Course description

Units based on experimental and investigative work focusing on:

- making and recording predictions, observations, measurements and comparisons
- turning ideas and questions into a form that can be investigated/tested
- recognizing, planning and carrying out a fair test
- collecting and interpreting evidence
- suggesting explanations based on scientific knowledge
- using results to draw conclusions

Content

- Moving and growing
- Habitats
- Keeping warm
- Solids, liquids and how they can be separated
- Friction
- Circuits and conductors

Objectives

- Students will learn how the skeleton is related to movement and support in humans and what happens to the skeleton and muscles as they move. They will also compare human bones and skeleton with those of other animals.
- Students will begin to understand the concept of a habitat, how it provides organisms found there with conditions for life and how animals depend on plants or other animals which eat plants for food.
- Students will build on their ideas about temperature as a measure of how hot or cold objects are and learn about thermal insulators as materials which can help to keep things warm or cool.
- Students will learn about the differences between solids and liquids and recognize that the same material can exist as both solid and liquid. They will identify changes that occur when solids and liquids are mixed and how to separate undissolved solids from a liquid. They will learn the difference between melting and dissolving.
- Students will build on their knowledge of forces and learn that forces can be measured and compared. They will learn about and investigate friction, air resistance and water resistance.
- Students will learn how to construct simple circuits and develop their understanding of conductors and insulators and how switches work.

Assessment

Trimester report cards.

