

## Teacher Resources - 7th Grade - Science

Last Updated Monday, 29 March 2010

### Life Science Review Document

#### 1st Nine Weeks

##### SOL

LS.1 The student will plan and conduct investigations in which

- a) data are organized into tables showing repeated trials and means;
- b) variables are defined;
- c) metric units (SI&mdash;International System of Units) are used;
- d) models are constructed to illustrate and explain phenomena;
- e) sources of experimental error are identified;
- f) dependent variables, independent variables, and constants are identified;
- g) variables are controlled to test hypotheses, and trials are repeated;
- h) continuous line graphs are constructed, interpreted, and used to make predictions;
- i) interpretations from a set of data are evaluated and defended; and
- j) an understanding of the nature of science is developed and reinforced.

LS.2 The student will investigate and understand that all living things are composed of cells. Key concepts include

- a) cell structure and organelles (cell membrane, cell wall, cytoplasm, vacuole, mitochondrion, endoplasmic reticulum, nucleus, and chloroplast);
- b) similarities and differences between plant and animal cells;
- c) development of cell theory; and
- d) cell division (mitosis and meiosis).

LS.3 The student will investigate and understand that living things show patterns of cellular organization. Key concepts include

- a) cells, tissues, organs, and systems; and
- b) life functions and processes of cells, tissues, organs, and systems (respiration, removal of wastes, growth, reproduction, digestion, and cellular transport).