

# 7<sup>th</sup> grade Teacher Information

## Unit 1 Levels of Organization

### Objectives

**SCI.7.4A** Use appropriate tools to collect, record, and analyze information.

**SCI.7.4B** Use preventative safety equipment including chemical splash goggles, aprons and gloves and be prepared to use emergency safety equipment.

**SCI.7.6A** Identify that organic compounds contain carbon and other elements such as hydrogen, phosphorus, nitrogen, or sulfur.

**SCI.7.12C** Recognize levels of organization in plants and animals including cells, tissues, organs, organ systems, and organisms.

**SCI.7.12F** Recognize that according to cell theory all organisms are composed of cells and cells carry on similar functions such as extracting energy from food to sustain life.

### Activity 1 Learning About Lab Safety

**Materials:** Safety Contract, Fire Blanket, Eyewash fountain, Fire Extinguisher, Safety Glasses/goggles, First Aid Kit

*Focus:* I can identify safety equipment in the classroom.

### Activity 2 How Living Things are Organized

**Materials:** Download video: *The Basics of Biology: How Living Things are Structured* from [www.missdoctorbailer.com](http://www.missdoctorbailer.com). It's 11 minutes – show the whole video.

**Materials:** Picture cards, Title cards

*Focus:* I can recognize levels of organization in plants and animals

### Activity 3 Learning About Organic Compounds

**Materials:** scissors and glue

*Focus:* I can identify that organic compounds contain carbon and other elements such as hydrogen, phosphorus, nitrogen, or sulfur.

## Activity 4 Learning About Cells

**Materials:** Foldable (see below), Cell Theory power point, Spontaneous Generation video

**Materials:** Microviewers, Slide set Booklet #58 or #101 or #207

If you do not have access to the microviewers a file on the website is called "4b Different Types of Cells" project these for the students to draw and label.

*Focus:* I can recognize that according to cell theory all organisms are composed of cells.

