

7th 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. 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.

