SCIENCE | GRADE 5

Calvert 5th Grade Science covers a wide-range of topics. Presented in 10 units, this course captivates students with lessons on cells, plant life cycles, animal life cycles, fossils, transformation of energy, and cycles in nature.

CELLSIU

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Viewing Cells

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is a dye in so

| Muscle cells

10 | Section 1

Draw a typical three-part cell on a separate sheet of pap

Size. Almost all cells are microscopic. This

Size. Almost all cells are **microscopic**. This means that most cells are so tiny that they require a microscope to be seen. In fact, the Period at the end of the last sentence would hold about 500 average-sized cells. These

Period at the end of the last sentence would hold about 500 average-sized cells These average-sized cells would be about 1/1000 of an inch in diameter (0.0025 centimeter).

The human body has more than 10 trillion (10,000,000,000,000) cells! However, other cells can be larger. The largest However, other cells can be larger. The largest cells are the yolks of birds eggs. The largest cell of all is the yolk of an astrich egg. It is about 3 inches in diameter (7.6 centimeters), we it ransiets of milu one celli

yet it consists of only one cell Shape. Cells also come in a variety of shapes Shape. Cells also come in a variety of shapes. There are round cells, oud cells, cubed cells, columnar cells, elongated cells, and rregular cells. Other cells are shaped like doughnuts of pancikles. There are even cells shaped like herete and common and concereve. There is or pancakes, inere are even cells shaped like hearts and commas and conkscrews! There is

no typical cell shape.

INTERNET NOTICE: There are many good resources on the Internet giving Information about cells and the life of cells. A lot of these internet sites have excellent drawings, illustrations and animations showing the detailed parts of cells. You can use keywords like "cells" and "hudeut" to life du thrare details on cells. We will cover more details on cells in Section 2 of this unit.

Complete this activity.

parts of a cell.

54 | Overview

GRADE 5 | SCIENCE

Scope & Sequence

CELLS

Unit .

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Unit

- Cell composition
- Plant and animal cells
- Life of cells
- Growth of cells

PLANTS: LIFE CYCLES

- Seed producing plants
- Spore producing plants
- One-celled plants
- Classifying plants

ANIMALS: LIFE CYCLES

- Invertebrates
- Vertebrates
- Classifying animals
- Relating function and structure

BALANCE IN NATURE

- Needs of life
- Dependence on others
- Prairie life
- Stewardship of nature

TRANSFORMATION OF ENERGY

- Work and energy
- Heat energy
- Chemical energy
- Energy sources

PHYSICAL GEOLOGY

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- Layers of the earth
- How volcanoes are formed
- Erosion and weathering

RECORDS IN ROCKS: FOSSILS

- Fossil types
- Fossil location
- Identifying fossils
- Reading fossils

RECORDS IN ROCK: GEOLOGY

- Features of the earth
- Rock of the earth
- Forces of the earth
- Changes in the earth

CYCLES IN NATURE

- Properties of matter
- Changes in matter
- Natural cycles
- Phases of the moon

LOOK AHEAD

- Plant and animal life
- Balance in nature
- Earth's structures
- Records of rock