



Biotechnology School Enrichment

Grades 4-5

Exploring a New World: Cells and Microscopes

Description: Exploring a New World is designed to provide students with hands-on science and technology activities that:

- teach science and technology concepts related to cells and the use of microscopes
- provide students with experiential learning opportunities that promote development of appropriate science and life skills
- introduce students to the scientific and technological field of biotechnology
- stimulate student interest in pursuing careers in science and technology

Format: The curriculum is designed to take 4-5 hours of classroom time to complete with activities ranging from 25 to 40 minutes in length. The curriculum may be taught by the classroom teacher with a microscope kit checked out from the local Iowa State University County Extension Office.

Features of this 72 page curriculum include:

Biotechnology and the National Science Education Standards

Biotechnology Resources

Students Activities:

Care and Use of a Microscope

Microscope Observations

Parts of a Cell

Build a Giant Cell

Secrets of the Code

What is DNA?

Biotechnology Applications -Yeast

Cost: This curriculum can be borrowed for one month or purchased for \$6.50 plus postage.