



CINCINNATI ZOO & BOTANICAL GARDEN



Indiana Academic Standards Addressed By Zoo Program

SLIDE SHOW PRESENTATION — EVERGREEN WORLD

Program description:

Learn about the technologies CREW scientists are using in the preservation and propagation of some of the rarest plants on earth. This fascinating program reveals the mysteries of plant tissue culture (“cloning”) and cryopreservation...a frozen garden! Hear and see how science can save plants as well as animals.

Indiana Science Standards addressed by this program:

GRADES 7-8th

Standard 1: The Nature of Science and Technology

The Scientific Enterprise

7th Grade

7.1.5

Identify some important contributions to the advancement of science, mathematics, and technology that have been made by different kinds of people, in difficult cultures, as different times.

Technology and Science

8th Grade

8.1.8

Explain that humans help shape the future by generating knowledge, developing new technologies, and communicating ideas to others.

BIOLOGY I

Standard 1: Principles of Biology

Ecology

B.1.38

Understand and explain the significance of the introduction of species, such as zebra mussels, into American waterways, and describe the consequent harm to native species and the environment in general.

B.1.41

Recognize that and describe how human beings are part of Earth’s ecosystem. Note that human activities can, deliberately or inadvertently, alter the equilibrium in ecosystems.

ENVIRONMENTAL SCIENCE, ADVANCED

Standard 1: Principles of Environmental Science

Environmental Systems

Env.1.4

Understand and explain that human beings are part of Earth’s ecosystems and give examples of how human activities can, deliberately or inadvertently, alter ecosystems.

ADVANCED LIFE SCIENCE: PLANTS AND SOILS (L) STANDARDS

Standard 3: Development and Function of Plant Systems

- PS.3.9 Give examples of asexual reproduction in plants. Include some natural ways that plants reproduce asexually, and describe methods of asexual reproduction used by growers. Discuss the roles of natural and synthetic hormones in plant propagation.