Genetics, Heredity, Environment

Summary

Each person is a unique individual. Genetics is the study of how traits are passed from past generations to a child. The students will learn basic genetic information.

Main Core Tie

Child Development

Strand 3

Time Frame

1 class periods of 90 minutes each

Group Size

Large Groups

Life Skills

Thinking & Reasoning, Social & Civic Responsibility

Materials

Note Cards, Crayons/colored pencils/markers, LCD projector &Computer,

Background for Teachers

Review Genetic information from curriculums, textbooks and web sites.

Intended Learning Outcomes

The students will understand the function of the different parts of a cell, how a cell divides, how multiple births occurs and how traits are passed from generation to generation.

Instructional Procedures

Introduce the unit by reading the book: *The Cow that Oinked*
Have the students take a notecard and write a "H" on one side and an "E" on the other. As a class, complete the Heredity / Environment activity.
Or read the Case Study and have the students write which traits are inhereted and which are influenced by environment.
Cover basic information with the PowerPoint presentation while the students take notes.
When discussing the information about twins, share the joke and story about twins.
Have the students complete the Gene-O information. (If student is adopted and does not have access to birth parent's information - just have them do the environment part.)
OPTIONAL ACTIVITIES:

- Heredity Worksheet (USOE Child Development Curriculum
- Go for the Gold

Assessment Plan

The Gene-o-Gram will help students to understand basic genetic.

Rubrics

Genetics/Heredity/Environment

Bibliography

USOE- FACS 1994 Child Development Curriculum

Authors

CAMILLE HICKS