

The Cutting Edge – Grade 10

Ohio Standards Connection:

Life Sciences

Benchmark J

Summarize the historical development of scientific theories and ideas, and describe emerging issues in the study of life sciences.

Indicator 28

Analyze and investigate emerging scientific issues (e.g., genetically modified food, stem cell research, genetic research and cloning).

Lesson Summary:

The purpose of this lesson is to help students explore the cutting edge of science. They will be able to understand how modern science can help society have healthier and more productive lives, and understand the cautions and shortcomings as well. Students will examine and present these issues via oral and written presentations. This lesson allows students to stay current with scientific advances and to be knowledgeable when these issues are discussed in media or personal discussions.

Estimated Duration: Three hours

Commentary:

This lesson offers the opportunity to pull current scientific research and discoveries into the classroom grounding students in a real world context. Topics used in this lesson could be “ripped from the headlines” to stimulate student interest.

Pre-Assessment:

List the following on the board:

- Genetically modified food;
- Stem cell research;
- Cloning;
- Gene therapy.

Ask students to write a few sentences telling what they know about each of the items above. Randomly ask students to read their answers (emphasize to students that their responses will not be graded. Let the students know that this gives you an opportunity to assess what they know regarding emerging scientific issues).

Post-Assessment:

- Print questions found in Attachment A, *Post-Assessment*, and distribute to students.
- Direct students to answer the questions provided.

Lesson Plan Of Cutting Edge

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Thomas Bawden**



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