



Targeted Teaching Topic

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Summary of Topic:

Pros and Cons of Genetic Data

Main Curriculum Tie:

Life sciences. Taken from The Learning Network. <http://learning.blogs.nytimes.com>

Required Materials for Lesson:

Student journals.

Background for Teacher:

Student Prior Knowledge:

Principles of heredity and related concepts.

Intended Learning Outcome:

Instructional Procedure:

- Read the following statements and have students write in their journal whether the statement is true or false. Have students tally their answers on board.
 - (T) The genome is an organism's complete set of genetic information.
 - (T) Today, it is possible to scan the entire genome to estimate a person's risk of developing certain diseases.
 - (F) Genetic tests can determine with 100% accuracy whether a person will develop a condition like obesity or heart disease.
- Have student write their opinions to the following statements:
 - I would like to have a scan of my genome so I can learn about my gene-related health risks.
 - Genome testing should only be done in consultation with a doctor or other health professional.
 - Anybody should be able to buy a kit to test their own DNA.
 - The results of genetic testing should be made available to insurance companies and employers.

How to Measure Outcome:

Discussion and journals.