# Targeted Teaching Topic

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## Summary of Topic:
Pros and Cons of Genetic Data

## Main Curriculum Tie:

## 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 if 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 students 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.