

Time: 50 minutes x 2

Learning Outcomes:

- analyze the implications of current and emerging biomedical, genetic, and reproductive technologies

Background:

Students will be introduced to a very brief history of genetic technologies and advances. Students will be asked to research a topic (population screening, pharmacogenomics, newborn screening, prenatal diagnosis) and to create a related technology that might be used in 2020.

Materials:

- access to internet, newspapers, various resources
- poster board and materials
- photocopies of handout: *Medical Genetics in 2020*

Procedure:

1. Distribute handout: *Medical Genetics in 2020*
2. Read activity scenario out loud.
3. Show Powerpoint presentation "*Medical Genetics in 2020.*"
4. Divide the students into groups of two or more, and divide topics equally among the groups.
5. Students will research their topic and make a poster to present in class.
6. Create a poster rubric and explain evaluation of project.



MEDICAL GENETICS IN 2020

You were asked to participate in the Canadian Task Force on New Genetic Technologies (ETFNGT) because of your expertise in the area. In order to better prepare society for new genetic technologies, your job is to forecast what technologies would be available in 2020.

Your task is to predict a genetic technology that would be available in 2020. Your technology should be accompanied by a picture and a brief description. Be prepared to discuss how the new technology will make a difference to our world, and what the advantages and disadvantages of using the technology would be. Be creative!

