**Name:**

**Date:**

**School:**

**Facilitator:**

5.01 Nuclear Energy

**Directions: Answer the following questions.**

1. Compare and contrast nuclear fission and nuclear fusion [how are they alike and different].
2. Which type of nuclear energy is used in commercial nuclear reactors to produce electrical energy? In two to three sentences, describe how a nuclear power plant works.
3. Why is nuclear fusion not a viable source of energy for humans/society?
4. List two benefits that nuclear energy has over coal use.
5. Explain how the use of nuclear energy “indirectly” contributes to the emission of greenhouse gases into the atmosphere.
6. What are two negative effects of using nuclear energy?