

How is Energy Transformed in Nuclear Reactions?

- A. Types of Nuclear Reactions
 - a. What is a nuclear reaction?
 - i. Isotopes
 - ii. Radioactive Isotopes
 - iii. Radiation
 - b. Types of Nuclear Reactions
 - i. Alpha decay
 - ii. Beta decay
 - iii. Gamma decay
- B. Nuclear Fission
 - a. What is nuclear Fission?
 - b. Chain Reactions
 - c. Reactors
- C. Nuclear Fusion
 - a. What is nuclear Fusion?
 - b. Chain Reactions
 - c. Reactor
- D. Nuclear Reactors
 - a. How do they work?
 - b. Which countries use nuclear power? Why? Map?
 - c. Nuclear energy in Canada
- E. Potential Hazards
 - a. Radiation
 - b. Nuclear waste
 - c. Any others?
- F. Fission or Fusion
 - a. Opinion based on scientific knowledge
 - b. Consider:
 - i. Byproducts
 - ii. Energy released

This is a RESEARCH PROJECT....

- ***Choose from the topics presented in class***
- Read: BC Science 10 Connections textbook for a broad overview of topic
- Research topic
- Look for MEANINGFUL diagrams, graphs and tables
- This will be presented on a poster board
- This will be presented to the class

This project is meant to show your depth of understanding of the chosen topic. This is an opportunity to "WOW" your teacher.

100 marks

rubric on back