

1. What is the basic process by which nuclear energy is converted into electrical power?
2. Describe the main components and functions of the nuclear reactor.

Watch the video “Fusion Energy Explained,” <https://youtu.be/N4yWhA1mVxA>

3. Why is fusion power not currently used to generate electrical power?
4. What would be some benefits of fusion rather than fission as an energy source?

Article: The Alchemist’s Dream

Read the attached article, “The Alchemist’s Dream” and answer the following questions

5. The first controlled fission reaction was set up at the University of Chicago. What basic substances made up the pile?
6. What was the purpose of the cadmium sulfide solution?
7. What was the purpose of the graphite?
8. What material was used for the control rods?