

Name _____

Radiation Unveiled: The Mystery of Radioactive Decay

Open-Ended Response Questions

1. Investigate and discuss the potential risks and benefits of using radioactive isotopes in various fields, such as medicine, energy production, and scientific research.
2. Describe a real-life scenario where understanding the half-life of a radioactive isotope is crucial, and explain how it is applied in that context.
3. Explore the historical discovery of radioactivity and its pioneers, such as Marie Curie and Henri Becquerel, and their contributions to our understanding of radioactive decay.
4. Discuss the environmental impact of radioactive decay and the measures taken to mitigate its effects, especially in nuclear power plants and waste disposal.

