

NAME:

1. Describe **three types of nuclear reactions**.
2. What is **radioactivity**? Give an **example**.
3. What kind of ionizing radiation can **turn other materials radioactive**?
4. Half-life of Iodine-131 radioisotope is about 8 days. Consider a sample containing 1 ng (nanogram) of Iodine-131. **In about how many days will the amount of Iodine-131 in the sample reduce to 0.125 ng?**