

Write down the isotopic notation for Carbon-14. Explain what the top and bottom numbers are.

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What is an alpha and beta particle? \_\_\_\_\_

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Which type of radiation is the most easily blocked? Which is difficult to stop? \_\_\_\_\_

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How can radioactivity be detected? \_\_\_\_\_

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What is the  $\frac{1}{2}$  life of Cobalt -60? \_\_\_\_\_

After 3  $\frac{1}{2}$  lives, what % of the radioactive isotope is remaining? \_\_\_\_\_

What is carbon-14 used for? \_\_\_\_\_

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What does the word *fission* mean? \_\_\_\_\_

When fission is controlled what is it used for? \_\_\_\_\_

When fission is not controlled how is it used? \_\_\_\_\_

What happened at 3-mile island and Chernobyl? \_\_\_\_\_

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What is nuclear *fusion*? \_\_\_\_\_

What is a radioactive tracer, and how is it used? \_\_\_\_\_

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How is radioactive iodine used in medicine? \_\_\_\_\_

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What is radiation therapy? \_\_\_\_\_

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Why is food irradiated? \_\_\_\_\_

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What % of radiation comes from x-rays and what % from Radon gas? \_\_\_\_\_

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How are people proposing to store dangerous radioactive waste? \_\_\_\_\_

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