Radioactivity and Half-Lives Review Worksheet

- What is the difference between radioactivity and nuclear radiation?
 Radioactivity is the process of nuclear decay (an unstable isotope emitting energy/a particle to become more stable). Nuclear radiation is that energy or particle being emitted.
- 2. Which type of radiation can be blocked by...
 - a. A piece of paper? alpha
 - b. A piece of wood? beta
 - c. A large block of concrete? gamma

Extension opportunity: Why? What do we know about the size of each type of particle that affects their ability to pass through materials? Alpha particles are the largest, so they move the slowest and cannot penetrate objects as easily. Gamma particles are the smallest and have no charge, so they penetrate more easily.

- What is a half-life?
 The time it takes for half of the material you started with to decay.
- If we start with 400 atoms of a radioactive substance, how many would remain after one halflife? 200 After 2 half-lives? 100 After 3 half-lives? 50 After 4 half-lives? 25
- If we start with 16 grams of a substance, how much will remain after 3 half-lives?
 16 → 8 → 4 → 2
 2 grams after 3 half-lives.
- How old is a skeleton sample if the current amount of carbon in the bones is 3.125%? (Assume you started with 100%)
 100% → 50 → 25 → 12.5 → 6.25 → 3.125
 5 half lives x 5.730 = 28.650 years
- If you started with 120 grams of a radioactive substance, and now you have 15 grams, how many half-lives have passed?
 120 → 60 → 30 → 15
 3 half-lives
- The half-life of isotope X is 2.0 years. How many years would it take for a 4.0 mg sample of isotope X to decay and have only 0.50 mg of it remain?
 4.0 → 2.0 → 1.0 → 0.50
 3 half lives x 2 years = 6.0 years

Half Life Calculations Worksheet Answer Key

Karin Nielsen-Saines

Half Life Calculations Worksheet Answer Key:

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