PHYSICS INMOTION gpb.org/physics-motion

Unit 7D Half-Life

Note-Taking Guide and Questions to Consider Date:

Main Ideas, Key Points, Questions:

After watching the video segment, write down key points, main ideas, and big questions.

Objective(s):

- Develop a mathematical model that indicates the relationship between half-life, time, and mass.
- Use a mathematical model to relate the amount of a substance, its half-life, and the total time elapsed.

Notes:	During the video segment, use words, phrases, or drawings to take notes.



After watching the video segment, write at least three sentences explaining what you learned. You may ask yourself: "If I was going to explain this to someone else, what would I say?"



5. What is the equation that relates the remaining mass of a radioactive sample, the initial mass of the sample, and the number of half-lives that pass?

of Half-Lives

- 6. What does the length of a radioactive isotope's half-life indicate about the stability of that isotope?
- 7. What method do scientists use to determine the age of fossils, and what radioactive isotope do scientists use to determine the age of organic fossils?

Unit 7D_Notes and Questions

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