

Radioactive Dating Game Lab 2015 Name _____ Hr. _

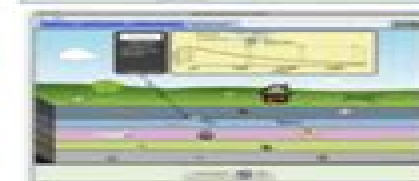
Purpose: Use radioactive decay and daughter element ratios of Carbon-14 and Uranium-238 to determine the ages of different objects.

Procedure: *Radioactive Dating Game*

Open the following link click "run" and answer the questions that follow. <http://phet.colorado.edu/en/simulation/radioactive-dating-game>

1. Select tab "Decay Rates". Then select Carbon-14.
2. Move the slider on the bucket all the way to the right. Observe the graph to determine the half-life for Carbon-14 is __ 730 years.
3. Select U-238. Use the graph to determine the half-life for Uranium-238 is __ .5 Billion years.
4. Place 1000 C-14 atoms onto screen. Start the decay.
 - a. Stop decay at one half-life. How many Carbon-14 atoms remain? _____
 - b. After 2 half-lives, how many Carbon-14 atoms remain? _____
 - c. After 3 half-lives, how many Carbon-14 atoms remain? _____
5. Click on tab for Dating Game. Start with **living and non-living objects** on the surface of the Earth and work your way down to the oldest on the bottom (Superposition). Use Carbon-14 for measurements on the surface. Move the slider at the top of the graph to match up given the percentages on the meter of the graph. Record measured ages in the table. Very old fossils will have no Carbon-14. Use Uranium-238 or custom radioactive isotope to determine the fossil's or rocks age. (Hint- Some of the answers are in millions or billions of years and require the correct number of zeros in the answer!)

Measurement of the beta decay activity of a buried piece of wood provides a measurement of the time elapsed since it was living and in equilibrium with the atmosphere.



Data: Radiometric Ages for Various Objects

Object	C-14	U-238	Custom radioactive isotope	Percent of Original radioactive isotope	Measured Age
1. Animal Skull	Used	XXXX	XXXXXXXXXXXXXXXX	%	
2. Living Tree	Used	XXXX	XXXXXXXXXXXXXXXX	%	
3. Distant Living Tree	Used	XXXX	XXXXXXXXXXXXXXXX	%	
4. House	Used	XXXX	XXXXXXXXXXXXXXXX	%	
5. Dead Tree	Used	XXXX	XXXXXXXXXXXXXXXX	%	
6. Bone (Femur)	Used	XXXX	XXXXXXXXXXXXXXXX	%	
7. Wooden Cup	Used	XXXX	XXXXXXXXXXXXXXXX	%	
8. 1 st human skull	Used	XXXX	XXXXXXXXXXXXXXXX	%	
9. 2 nd older human skull	XXX	XXXX	Used Half-Life 100ky	%	
10. Fish Bones	XXX	XXXX	Used Half-Life 10my	%	
11. Fish Fossil 1	Used	XXXX	XXXXXXXXXXXXXXXX	%	
12. Rock 1	XXX	Used	XXXXXXXXXXXXXXXX	%	
13. Dinosaur Skull	XXX	XXXX	Used Half-life 100my	%	
14. Rock 2	XXX	Used	XXXXXXXXXXXXXXXX	%	
15. Trilobite (index fossil)	XXX	XXXX	Used Half-Life 100my	%	
16. Rock 3	XXX	Used	XXXXXXXXXXXXXXXX	%	
17. Rock 4	XXX	Used	XXXXXXXXXXXXXXXX	%	
18. Rock 5	XXX	Used	XXXXXXXXXXXXXXXX	%	

Answer Key For Phet Radioactive Dating Game

Tobias Bleicker



Answer Key For Phet Radioactive Dating Game:

Reviewing **Answer Key For Phet Radioactive Dating Game**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Answer Key For Phet Radioactive Dating Game**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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