

Radioactive Dating Game Lab 2015 Name _____ Hr. _

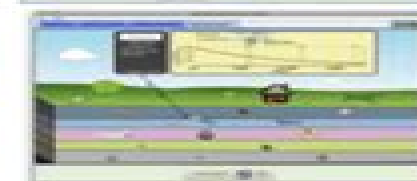
Purpose: Use radioactive decay and daughter element ratios of Carbon-14 and Uranium-238 to determine the ages of different objects.

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	%	

Phet Radioactive Dating Game Answers

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Phet Radioactive Dating Game Answers:

The Dating Game Cherry Lewis, 2012-03-29 In this book Cherry Lewis skilfully blends the history of gauging the age of the Earth with a biography of Arthur Holmes a British geologist who was a pioneer of geochronology When it was deeply unfashionable to do so in the early twentieth century he spent many years trying to prove the great antiquity of the Earth stating that it was perhaps a little indelicate to ask of our Mother Earth her age but science acknowledges no shame Both fascinating and touching this book appeals to a broad readership of both geologists and science enthusiasts

The Enigmatic Realm of **Phet Radioactive Dating Game Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Phet Radioactive Dating Game Answers** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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