

# Radioactive Dating Game Lab 2015 Name \_\_\_\_\_ Hr. \_

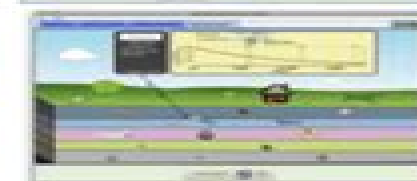
**Purpose:** Use radioactive decay and daughter element ratios of Carbon-14 and Uranium-238 to determine the ages of different objects.

**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	XXXXXXXXXXXXXX	%	
2. Living Tree	Used	XXXX	XXXXXXXXXXXXXX	%	
3. Distant Living Tree	Used	XXXX	XXXXXXXXXXXXXX	%	
4. House	Used	XXXX	XXXXXXXXXXXXXX	%	
5. Dead Tree	Used	XXXX	XXXXXXXXXXXXXX	%	
6. Bone (Femur)	Used	XXXX	XXXXXXXXXXXXXX	%	
7. Wooden Cup	Used	XXXX	XXXXXXXXXXXXXX	%	
8. 1 <sup>st</sup> human skull	Used	XXXX	XXXXXXXXXXXXXX	%	
9. 2 <sup>nd</sup> older human skull	XXX	XXXX	Used Half-Life 100ky	%	
10. Fish Bones	XXX	XXXX	Used Half-Life 10my	%	
11. Fish Fossil 1	Used	XXXX	XXXXXXXXXXXXXX	%	
12. Rock 1	XXX	Used	XXXXXXXXXXXXXX	%	
13. Dinosaur Skull	XXX	XXXX	Used Half-life 100my	%	
14. Rock 2	XXX	Used	XXXXXXXXXXXXXX	%	
15. Trilobite (index fossil)	XXX	XXXX	Used Half-Life 100my	%	
16. Rock 3	XXX	Used	XXXXXXXXXXXXXX	%	
17. Rock 4	XXX	Used	XXXXXXXXXXXXXX	%	
18. Rock 5	XXX	Used	XXXXXXXXXXXXXX	%	

# Phet Radioactive Dating Game Answer Key

**Emilie Sanchez**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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