

Radioactive Dating Game Lab 2015 Name _____ Hr. _

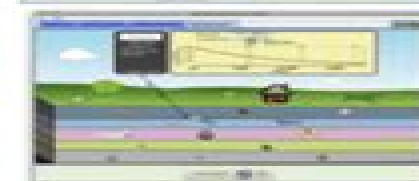
Purpose: Use radioactive decay and daughter element ratios of Carbon-14 and Uranium-238 to determine the ages of different objects.

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 Radioactive Dating Game

Walch Publishing



Answer Key Radioactive Dating Game:

Distance Education Paul Birevu Muyinda, 2012-09-19 Education has become the number one demanded commodity for social and economic transformation for both developing and developed economies. Thus the number of persons going and returning to school has become too big to be handled by existing brick and mortar learning institutions. Besides the majority of lifelong learners do not have the time to become full time students. Distance education is becoming the solution to the aforementioned challenges. It has been defined as the mode of study where the learner is separated in time and space from the institution and tutors providing the tuition.

Biology Challenge! Walch Publishing, 2004 Reinforce key topics with these fun high impact quiz games.

AS Use of Maths - Algebra and Graphs (incorporating Applying Maths) June Haighton, Anne Haworth, Geoff Wake, 2003 A study guide covering two compulsory modules of AS Mathematics.

Why Are School Buses Always Yellow? John F. Barell, 2016-03-03 Turn natural curiosity into deep lasting learnings. Help students transform their playful wonderings into deeper questions about content and develop the higher level thinking skills they need for success in school and in life. In this invaluable resource you will find simple yet systematic ways to develop authentic student inquiry that fosters deep learning. This new edition features Updates based on the latest research around inquiry based teaching. Examples for K-8 across subject areas. New emphasis on critical thinking about technologies. New and updated activities, checklists, templates and implementation tools. Alignment with Common Core and Next Generation Science Standards.

American Paleontologist, 2001

Sif Chemistry N1 Rex M. Heyworth, 2007

Film & Video Finder, 1987

Bulletin of the Atomic Scientists, 1979-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world.

The Handbook of Circulation Management Barbara Love, 1980

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Popular Mechanics, 2000-01 Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home improvement tips, gadgets and digital technology information on the newest cars or the latest breakthroughs in science, PM is the ultimate guide to our high tech lifestyle.

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Forthcoming Books Rose Arny, 1994-04

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Mathematics David Bruce Johnson, Thomas A. Mowry, 2000-10 Emphasizing the practical applications and the history of mathematics, MATHEMATICS: A PRACTICAL ODYSSEY illustrates to students how mathematics is relevant to their education, human history and culture. Johnson and Mowry effectively demonstrate how learning the algebraic concepts presented allows students to understand more about logic, probability, statistics, finance, geometry, matrices, logarithms, calculus and many other topics.

Popular Science, 1986-02 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better and science and technology are

the driving forces that will help make it better Bulletin of the Atomic Scientists ,1966-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *American Book Publishing Record* ,1977-03-31 Here s quick access to more than 490 000 titles published from 1970 to 1984 arranged in Dewey sequence with sections for Adult and Juvenile Fiction Author and Title indexes are included and a Subject Guide correlates primary subjects with Dewey and LC classification numbers These cumulative records are available in three separate sets **Bulletin of the Atomic Scientists** ,1970-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

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