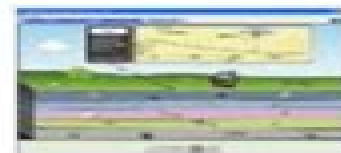


Radioactive Dating Game Activity



Radioactive Dating Game

1.) Go to this website:

<http://phet.colorado.edu/en/simulation/radioactive-dating-game>

2.) Click on Download

3.) Click on Open.

Purpose: Students will use radioactive decay rate and original daughter element ratios of Carbon-14 and Uranium-238 to determine ages of different objects.

Materials: Computer web site

Type in -> phet.colorado.edu -> play with sims-> Earth science-> Radioactive Dating Game



RADIOACTIVE DATING GAME DIRECTIONS

Now that we understand radioactive decay and half-lives, we can use them to determine how old rocks or fossils are.

1. Click the "Dating Game" tab at the top of the screen.
2. You can drag the probe to different items on or below the surface of the earth. The probe tells you how much of the original element is still in the rock or fossil. You can measure C-14 or U-238, whichever works better for the item you are measuring.
3. You can use the graph to match the percent of element remaining, and then use the time shown to estimate the age of the rock or fossil.
4. Let's do an example:
 - a. Drag the probe to the dead tree to the right of the house.
 - b. Look at the probe reading: it tells you that there is 97.4% of the original C-14 remaining in the dead tree.
 - c. Now find the green arrows on the graph at the top of the screen. Drag those arrows right or left until the top line tells you that the C-14 percentage is 97.4%, the reading from the probe.
 - d. When you get the graph to read 97.4%, it tells you that the time has been 229 years.
 - e. Type this number into the box for "Estimate age of dead tree" and click "Check Estimate".
 - f. You should get a green smiley face, indicating that you have correctly figured out the age of the dead tree.

Radioactive Dating Game Answer Key

L Reisser



Radioactive Dating Game Answer Key:

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 ll 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 **Exploring Planet Earth** , 1997 **The Conservationist** , 2005 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 *Bowker's Directory of Videocassettes for Children 1999* R R Bowker Publishing, Bowker, 1999-03 **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 **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 **Books in Print Supplement** , 2002 **The Film Journal** , 1988

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