

Radioactive Dating Game

A. HALF LIFE

1. Click the "Pause" button at the bottom of the window.
2. Click the "Add 10" button below the "Bucket o' Atoms" repeatedly, until there are no more atoms left in the bucket.
3. There are now 100 carbon-14 atoms on the screen. The half-life of carbon-14 is about 5700 years. If you left those 100 carbon-14 atoms to sit around for 5700 years, how many would you expect to decay during that time? _____
4. Click the "Play" button at the bottom of the window. Watch the graph at the top of the window carefully. Was your prediction from #3 correct? _____ Was it close? _____
5. Click "Reset All Nuclei" and then repeat step #4. Was your prediction from #3 correct this time? _____ Was it close? _____
6. Is radioactive decay an easily predictable process or a statistical process? _____

B. DECAY RATES

1. Click the "Decay Rates" tab at the top of the screen.
2. On the right side of the screen, click the button next to Uranium-238. This time we will watch the decay of this atom. Uranium-238 has a half-life of about 4.5 billion years.
3. On the bucket of atoms, there is a slider. Drag the slider all the way to the right and watch the graph at the bottom of the screen.
4. Fill in the answers in this table:

After one half-life (4.5 billion years), what percent of the original uranium remains?
After two half-lives (9 billion years), what percent of the original uranium remains?
After three half-lives (13.5 billion years), what percent of the original uranium remains?
After four half-lives (18 billion years), what percent of the original uranium would remain?
5. Suppose you found a rock, and through testing found out that it had just as much lead-206 as uranium-238 in it. How old would you conclude the rock to be? _____

C. MEASUREMENT

1. Click the "Measurement" tab at the top of the screen.
2. Click "Plant Tree" at the bottom of the screen. The tree will grow and live for about 1200 years, then die and begin to decay. Let the time run and watch the graph at the top of the screen.
3. According to the graph, what is the percent of C-14 in the tree while it is alive? _____
Why? _____
4. According to the graph, approximately how many years has the tree been dead when its C-14 percent is down to 50%? _____
5. According to the graph, approximately how many years has the tree been dead when its C-14 percent is down to about 12.5%? _____
6. Click "Rock" on the right side of the screen. Click "Uranium-238" underneath "Probe Type" in the upper left of the screen. To measure longer times, we need to use an element that decays more slowly than C-14.
7. Before you click anything, make some predictions. How much uranium will be remaining when the rock is 4.5 billion years old? _____ How much will be remaining when the rock is 9 billion years old? _____ How much will be remaining when the rock is 13.5 billion years old? _____
8. Click "Erupt Volcano" to begin the process of creating an igneous rock. Watch the graph at the top of the screen. Check your predictions from #7. Were they correct? _____

Radioactive Dating Game Answer Worksheet

**June Haighton, Anne Haworth, Geoff
Wake**



Radioactive Dating Game Answer Worksheet:

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

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

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 Journal of Physics ,1980

American Paleontologist ,2001

Sif Chemistry Nl Tb Rex M. Heyworth, 2007

Webster's II Dictionary Houghton Mifflin Co., 2005-07-05 The ideal resource for home school and office Clear concise definitions Revised and updated Over 1 000 new words and senses The latest vocabulary in science technology medicine contemporary culture and much more Updated biographical and geographical entries Hundreds of detailed illustrations Helpful charts and tables including the Bible currency and measurement

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Exploring Planet Earth ,1994

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

The Conservationist ,2005

Bowker's Directory of Videocassettes for Children 1999 R R Bowker Publishing, Bowker, 1999-03

Forthcoming Books Rose Army, 1994-04

Webster's II New Riverside Dictionary Merriam-Webster, Brenda Jackson, Ronald L McDonald, 1989 Compiled especially for today s successful student the bestselling Webster s II is packaged to stand apart from the rest Features more than 55 000 precise definitions concise style and usage guides word histories compute r and science terms and more

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