

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? _____

Phet Radioactive Dating Game Worksheet Answers

Annelies Wilder-Smith



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