Radiometric Ages for Various Objects:

1. Click on the following link: <https://phet.colorado.edu/en/simulation/radioactive-dating-game>
2. Click on the tab for the “Dating Game”
3. Estimate the age of the object and record under “guessed age”.
4. Use carbon 14 to date the object.
5. Drag the green arrow to the right or left until the amount of carbon is equal to the amount shown in the black box
6. Write the estimated age in the box “measured age”, and also record the “% of the original” in the data table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Object | Measured using C-14 or U-238? | % of original | Guessed age | Measured age |
| Animal skull |  |  |  |  |
| House  |  |  |  |  |
| Dead tree |  |  |  |  |
| Bone  |  |  |  |  |
| Wooden cup |  |  |  |  |
| 1st human skull |  |  |  |  |
| Fish bones |  |  |  |  |

1. If time allows, explore the other tabs on the simulation.