

[Click Here for video --> **Doesn't radiometric dating prove the earth is billions of years old Jim Mason PhD**](#)

- ★ 0:16 "The age of the earth is about 4.54 billion years old." Is this common statement accurate, precise, both, or neither?
- ★ 0:52 Micrometer illustration of accuracy vs. precision
- ★ 2:48 Radioactive Decay Process 1. Parent Element 2. Daughter Element 3. Half-life 4. Parent/Daughter Ratio
- ★ 4:29 Assumptions in Radiometric Dating 1. No daughter element at the start 2. The Rock has been a closed system 3. Constant rate of decay (half-life)
- ★ 5:03 Common Radiometric Decay Chains Used for Dating Rocks
- ★ 5:46 Calibrating the Dating Methods (See if it gets the right answer for a date you know)
- ★ 6:52 Results Compared with Known Dates
- ★ 8:25 Isochron Dating Method
- ★ 9:08 Assumptions in Isochron Dating
- ★ 10:37 Isochron Dating Examples
- ★ 12:49 Potential Changes in Decay Rate
- ★ 13:58 Radiocarbon Dating
- ★ 14:15 How Carbon-14 is Produced
- ★ 15:22 C-14 Dating Method
- ★ 16:45 Basic Assumption of C-14 to C-12 Ratio
- ★ 17:40 At about 90,000 years no C-14 should be detectable.
- ★ 17:58 C-14 Levels in Coal
- ★ 19:07 Dinosaur Bones with C-14
- ★ 19:44 C-14 in Diamonds
- ★ 20:15 Australian Crinum Mine
- ★ 21:21 Biblical Assumptions on C-14/C-12 Ratio
- ★ 24:01 A Telling Admission - Dates that don't fit are discarded (confirmation bias and cherry-picking)
- ★ 24:50 Radiogenic Helium Dating - Zircon crystals
- ★ 26:32 Fenton Hill, NM Bore Hole
- ★ 27:28 Helium Diffusion Calculations
- ★ 28:15 Prediction made on the basis of biblical creation assumptions proves correct
- ★ 29:01 Radiohalos
- ★ 31:44 Argon Diffusion Dating of Feldspar
- ★ 34:22 Summary: Radiometric Dating Depends on Assumptions that Have Been Shown to be Incorrect.

Dr. Mason seems to accept plate tectonics. For a critique of plate tectonics from a creationist view, see: https://youtu.be/4hhE6tzJR_c?t=1h11m18s

