

Download File PDF Radioactive Dating Worksheet

#Jenny



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Cool! I'am really happy

#Markus Jensen



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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

The chart below lists the half-lives of some radioactive elements.

Element	Half-life	Element	Half-life
Bismuth-212	60.4 minutes	Phosphorus-34	14.3 days
Carbon-14	5730 years	Potassium-215	0.0019 seconds
Chromium-56	400,000 years	Radium-226	1600 years
Cobalt-60	5.26 years	Sodium-24	15 hours
Iodine-131	8.07 days	Uranium-238	4.3 billion years

4. An archaeologist finds a piece of old bone that she believes may be 2000 years old. The lab technician tells her that the carbon-14 in the bone has completed 25 percent of its first half-life. Does this finding support her belief about the age of the bone? Why or why not?

What is 25% of 5730 yrs

$$\frac{15}{100} = \frac{25}{100} \times \frac{5730}{100}$$
$$\frac{15}{100} = \frac{1432.5}{100}$$
$$15 \times 100 = 1432.5 \times 100$$
$$1500 = 143250$$
$$X = 1432.5$$

X = 1432.5 yrs age of bone

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