

Download File PDF Radioactive Dating Worksheet

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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-32	14.3 days
Carbon-14	5730 years	Potassium-40	1.25 x 10 ¹⁰ years
Chromium-51	27.7 days	Radium-226	1600 years
Cobalt-60	5.27 years	Sodium-24	15 hours
Iodine-131	8.07 days	Uranium-238	4.5 billion years

4. An archaeologist finds a piece of old bone that she believes may be 14325 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

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

X = 1432.5 yrs age of bone

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