

## Chapter 23 Reading Guide Broad Patterns of Evolution

### Section 1

1. In what type of rock are fossils found? Sedimentary
2. What do we not know from analyzing rock strata?

Actual absolute age of fossils

3. Rocks and fossils are dated in several ways. Relative dating uses the order of rock strata to determine the relative age of fossils. Radiometric dating uses the decay of radioactive isotopes to determine the age of the rocks or fossils. It is based on the rate of decay, or half-life of the isotope. To determine the absolute age of a fossil, radiometric dating is used. Use Figure 23.4 to explain the concept of radiometric dating.

50% of the parent isotope to decay, carbons life

4. What is the age range for which carbon-14 dating may be used?

75,000

5. To date fossils outside the range of carbon-14 dating, researchers use indirect methods of establishing absolute fossil age. Explain how this could be done using radioisotopes with longer half-lives.

Carbon 12 doesn't decay so it will remain constant at fossil level

6. What are three groups of tetrapods?

Amphibians, reptiles, mammals

7. Cite three ways of distinguishing mammal fossils from the other two groups of tetrapods.

Lower jaw composed of one bone in mammals but in reptiles and amphibians there are many, mammals have three bones in their ear, mammal teeth have molars

### Section 2

8. Define continental drift. How can continents move?

Slow movement of the continental plates across earth's surface, movements in the

9. ~~A~~ <sup>mantle</sup> mass extinction is the loss of large numbers of species in a short period, caused by global environmental changes. What caused the Permian mass extinction 250 million years ago (mya)? Summarize the species that were lost.

96% of marine animal species, insects were wiped out

# Chapter 23 Reading Guide

**J Spring**



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web 140g plain flour 100g soft fresh white breadcrumbs 100g light muscovado sugar crumbled if it looks lumpy 3 large eggs 2 tbsp brandy or cognac plus extra to light the pudding 250g packet butter taken straight from the fridge for the brandy and ginger butter 175g unsalted butter softened grated zest of half an orange 5 tbsp icing sugar

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web ingredients yields 8 10 servings metric cups 150 grams currants 150 grams sultanas 150 grams roughly chopped prunes 175 millilitres pedro ximenez sherry 100 grams plain flour 125 grams fresh breadcrumbs 150 grams suet 150 grams dark brown muscovado sugar 1 teaspoon ground cinnamon ¼ teaspoon ground cloves

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