

## Earth Science SOL Review Sheet #11: Paleontology

### Essential Knowledge and Skills

- A fossil is the remains, impressions, or other evidence of the former existence of life preserved in rock.
- Some ways in which fossils can be preserved are molds, casts, and original bone or shell.
- Nearly all fossils are found in sedimentary rocks.
- In Virginia, fossils are found mainly in the Coastal Plain, Valley and Ridge, and Appalachian Plateau provinces.
- Most Virginia fossils are of marine organisms. This indicates that large areas of the state have been periodically covered by seawater.
- Paleozoic, Mesozoic, and Cenozoic fossils are found in Virginia.
- Relative time places events in a sequence without assigning any numerical ages.
- Fossils, superposition, and cross-cutting relations are used to determine the relative ages of rocks.
- Absolute time places a numerical age on an event.
- Radioactive decay is used to determine the absolute age of rocks.
- Describe how life has changed and become more complex over geologic time.
- Interpret a simple geologic history diagram using superposition and cross-cutting relations.

### Important Words You Need to Know:

**absolute dating** – calculating age in years

**carbon 14** – parent material used in radiometric dating of organic remains

**cast** – a model of an organism formed when a mold fills with sediment

**Cenozoic** – current era; Age of Mammals

**extinct** – when a species no longer exists

**fossil** – any direct evidence of life that lived before recorded history

**index fossil** – a fossil used to determine the age of other fossils or rocks

**Law of Cross cutting Relationships** – when interpreting a geologic column, if one event cuts through or affects another, it must be younger than the one it cut through

**Law of Superposition** – in a series of undisturbed strata, the oldest layer is on the bottom and the youngest is on the top

**mold** – a dent or a hollow in a rock in the shape of an organism

**Mesozoic** – era when dinosaurs were dominant

**original remains** – bones, shells, teeth, and in some cases entire bodies that are preserved without changing the original material

**Paleozoic** – era containing life from trilobites to reptiles

**relative dating** – finding the order of a series of events

**radioactive decay** – the release of subatomic particles from the nuclei of radioactive elements until a stable non-radioactive element is produced, is used to determine the absolute age of rocks and or fossils

### Now You Try It!

**Practice Questions: Circle the correct answer!**

1. Which of these is MOST LIKELY a sedimentary rock?



A



C

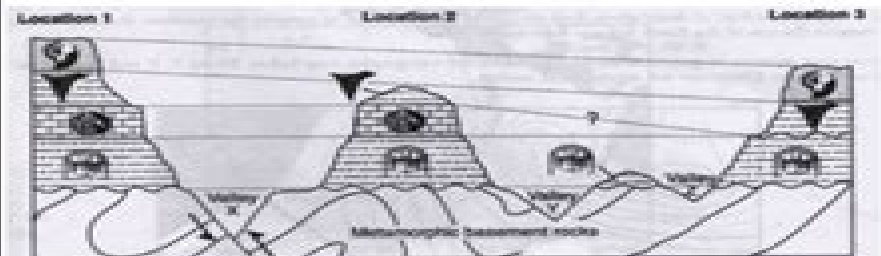


B



D

2. In which type of environment were the sediments that formed these sedimentary rock layers most likely deposited?



- A glacial
- B mountainous
- C marine
- D terrestrial plateau

3. During which era were the dinosaurs the dominant life form on Earth?

- A Paleozoic
- B Cenozoic
- C Precambrian
- D Mesozoic

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