**Questions for EVOLVING PLANET**

1 How old is the Earth?

 2 What is the geologic time scale and how are the units of the time scale related (i.e., eon era, period, and epoch)?

 3 What is an eon? What are the three eras of the Phanerozoic Eon. In what era did trilobites, dinosaurs, and humans appear? What are the Periods in the Paleozoic Era?

 4 How much of Earth’s history is represented by the Precambrian? What major event takes place at the beginning of the Precambrian?

 5 Does the duration of certain periods or eras ever change? What happens to the geologic time scale when geologists get more data on the age of fossils and rock layers?

1 What is Pangaea? What lines of evidence support the existence of Pangaea?

 2 What is a tetrapod? Are humans tetrapods? What groups of tetrapods existed during the Permian Period?

 3 How can fossil plants provide clues to the type of climates that existed on Pangaea?

 4 Draw and label the parts of the amniote egg (outer shell, embryo, chorion, yolk sac, allantois, and amnion). Why was the evolution of this type of egg so important to the evolutionary success of early tetrapods?

5 How many species died out during the end of the Permian mass extinction? What are the current theories for its cause?