## SOLVE A SEDIMENTARY LAYERS PUZZLE

# Did you know that the history of life on Earth is told through rocks?

Over millions of years, sediments such as sand and silt were laid down and compressed to form sedimentary rock layers. They preserve a record of ancient landscapes, climates, and organisms.

Scientists often determine the correct sequence of sedimentary rock layers using the fossils found within them. They compare the fossils to figure out if two layers are from the same geologic time period, or if one layer is older than the other.

### Try reconstructing the layers below using the same strategy!

#### 1. Photocopy and cut out the five strips of paper

Each strip represents a sedimentary rock layer formed during a certain time period.

#### 2. Put the layers in correct order

Begin by placing B, the "oldest layer," on the bottom. Then decide which layer comes next. It will have some of the same organisms as the older

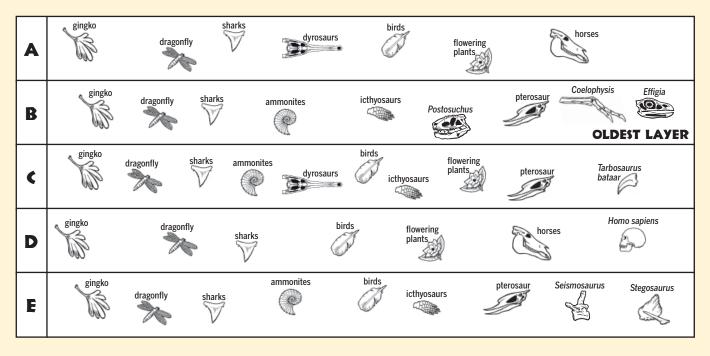


Dinosaur fossils have been discovered on every continent, even Antarctica.

layer and some new ones. (Hint: Organisms do not disappear for a layer and then reappear.) Place it above. Continue until the layers are in order, with the youngest at the top. Check your answers and write the time period on each layer.

#### Explore More!

Look at the fossils within each layer. What plants and animals lived during the same time period? Then compare the layers to explore the changing plant and animal groups throughout Earth's history. Which organisms survived from one time period to the next? Which ones went extinct? Could *Tarbosaurus* have hunted *Seismosaurus*? What organisms survived the mass extinction at the end of the Cretaceous Period?



Answers: Order of layers from top to bottom: D (Quaternary Period, 2 million years ago to present), A (Tertiary Period, 65-2 mya), G (Cretaceous Period, 145-65 mya), E (Jurassic Period, 200-145 mya), and B (Triassic Period, 250-200 mya)