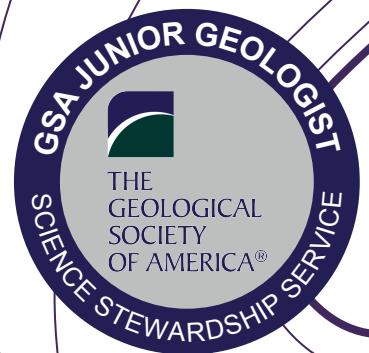
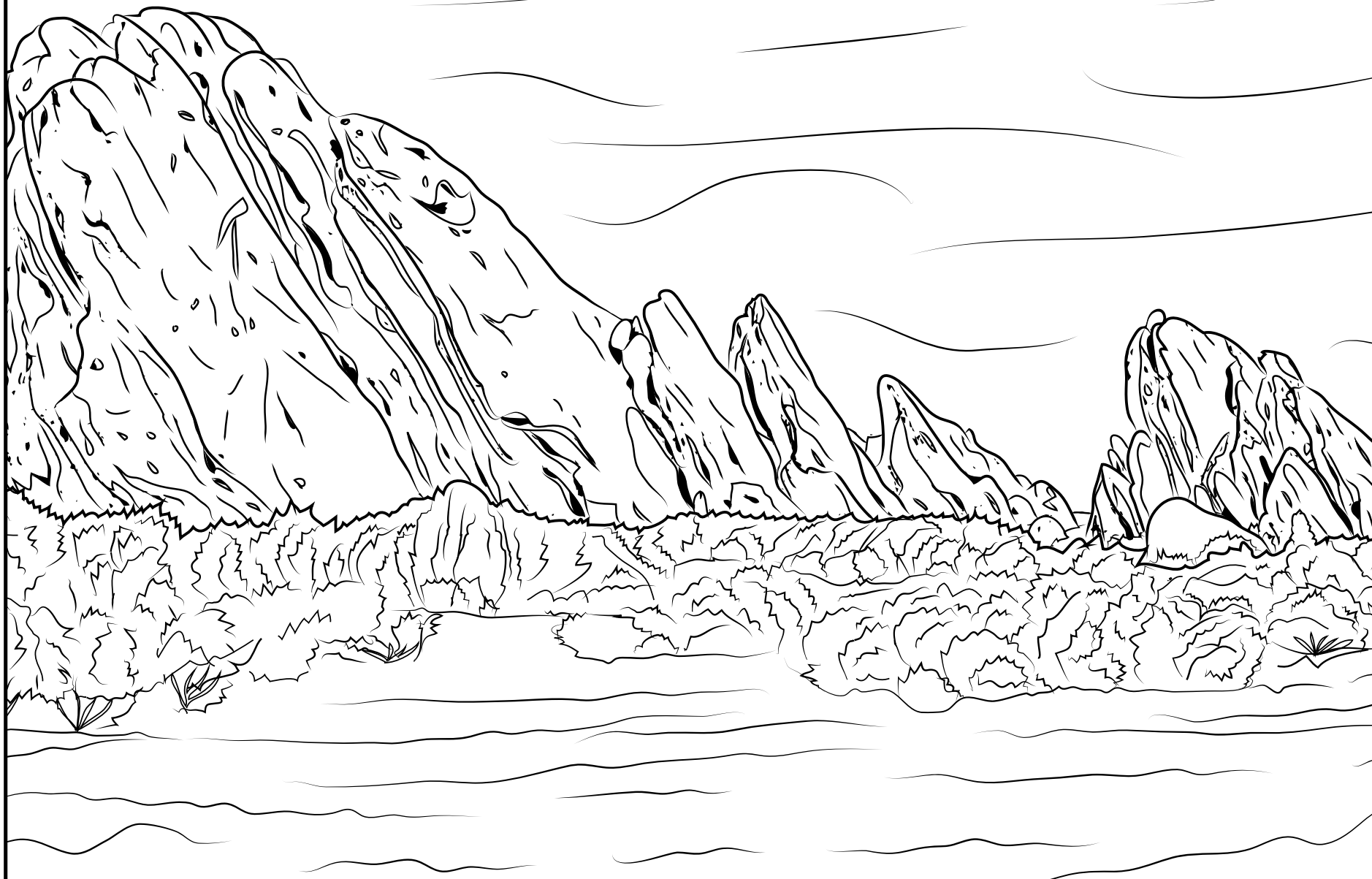


# Official 2018 GSA Junior Geologist Activity Book



**4-7 November**  
Indianapolis, Indiana, USA

Color Me!



**Pennsylvanian sandstones uplifted, Roxborough Park, Colorado. This layer of rocks, tilted upward and now dipping steeply to the east, is the Pennsylvanian Fountain Formation, which was uplifted by the Rocky Mountains ca. 40 Ma.  
Credit: Charles W. Carrigan is professor of geoscience at Olivet Nazarene University.**

# BINGO!

Which big race car event takes place in Indianapolis?	What does the acronym "GSA" stand for?	Ask a geologist, "What do you like to research?"	Based on where you live, what GSA Section would you belong to?
If you were a geologist, what GSA Division of study would you be interested in joining?	There is a statue called <i>King at Rest</i> at the northwest entrance to the Convention Center. What is it a statue of?	Find GSA Headquarters and pick up a geologic time scale sticker!	Find the GSA photo opportunity area.  *Hint, you will see red carpet and a background of GSA logos there!
Where will the GSA 2019 Annual Meeting be held?  *Hint, you can find out at the GSA Headquarters booth or booth #834.	Which Great Lake touches Indiana?	Check out the Poster Hall and sketch what it looks like.	Ask a geologist, "What is the difference between a rock and a mineral?"
Find the Exhibit Hall. What is your favorite booth?	There is a lot of glacial till covering Indiana's bedrock. Ask a geologist what this means.	Find a fossil in the Poster Hall or Exhibit Hall and draw it.	What year was GSA created?  *Hint, you can ask a staff member at the registration desk.

# Fill in the Blanks

1. \_\_\_\_\_ Society of America.
2. Using your geologic time scale, what Era are we in? (Hint: it's across the top.) \_\_\_\_\_
3. What comes out of a volcano? \_\_\_\_\_
4. What do you call a person who studies the Earth and rocks? \_\_\_\_\_
5. When the Earth moves and shakes it is called an \_\_\_\_\_.
6. How many horns did triceratops have? \_\_\_\_\_
7. The word \_\_\_\_\_ means terrible lizard.
8. A person who studies fossils & prehistoric life is known as a \_\_\_\_\_.
9. What animal alive today evolved from dinosaurs? \_\_\_\_\_
10. Using your geologic time scale, in what Era do we see dinosaurs? \_\_\_\_\_
11. A rock can melt (true or false). \_\_\_\_\_
12. The crust of the \_\_\_\_\_ is broken into plates that move.
13. When the moon covers the sun it is called a solar \_\_\_\_\_.
14. \_\_\_\_\_ rocks are formed from magma or lava that has cooled and hardened. (Sedimentary, Igneous, or Metamorphic)
15. \_\_\_\_\_ rocks are formed from deposits of materials like sand, pebbles, gravel, and clay. (Sedimentary, Igneous, or Metamorphic)
16. \_\_\_\_\_ rocks are changed by heat and pressure. (Sedimentary, Igneous, or Metamorphic)

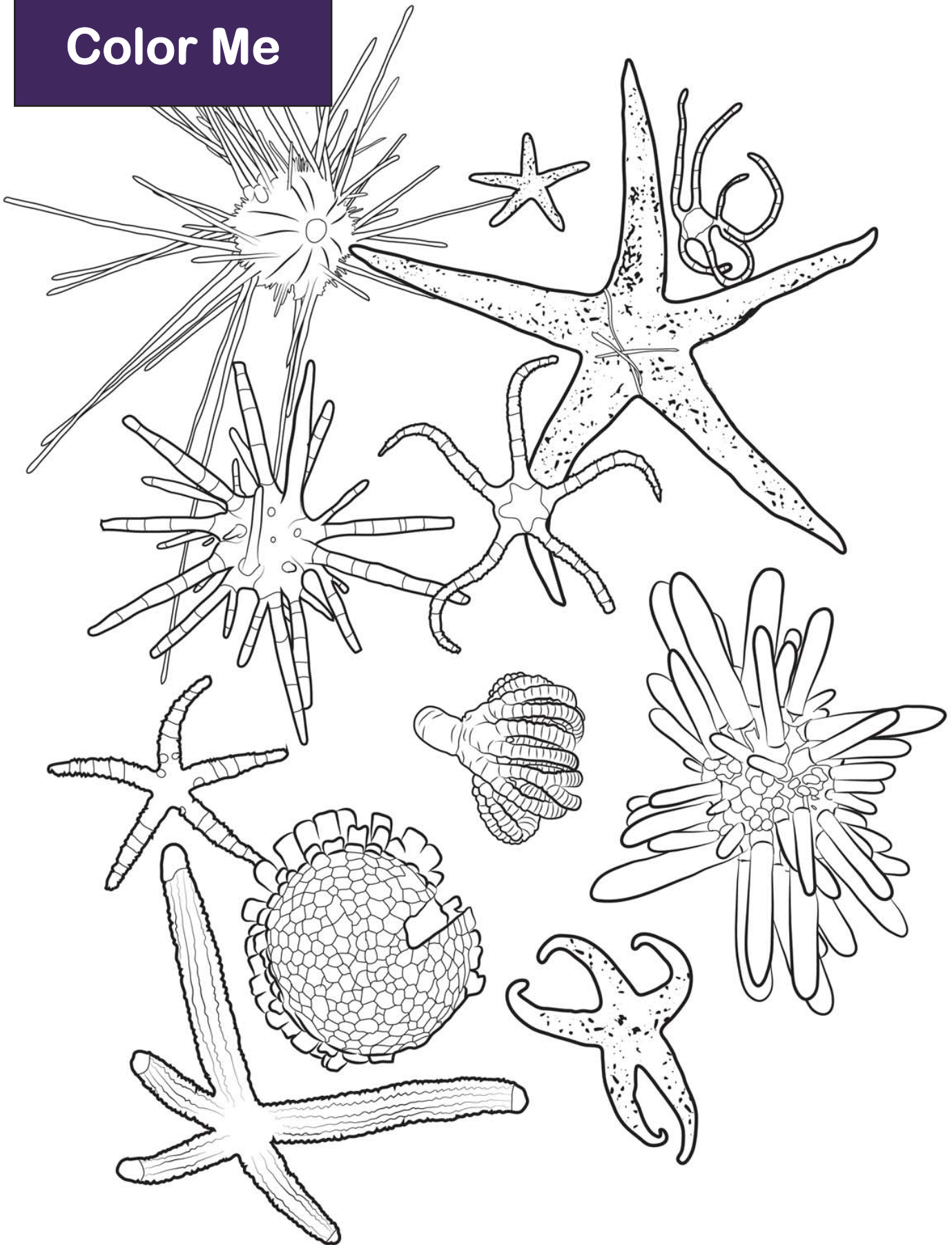
16. METAMORPHIC  
15. SEDIMENTARY  
14. IGNEOUS  
13. ECLIPSE

12. EARTH  
11. TRUE  
10. MESOZOIC  
9. BIRDS

8. PALEONTOLOGIST  
7. DINOSAUR  
6. THREE  
5. EARTHQUAKE

4. GEOLOGIST  
3. LAVA  
2. CENOZOIC  
1. GEOLOGICAL

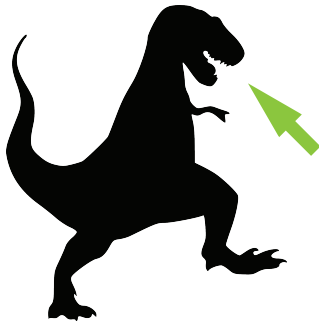
# Color Me



**Morphological disparity among living echinoderms; collection of various echinoderms, including echinoids, starfish, ophiuroids, and a crinoid.**  
**Credit: Christina E. O'Malley is a doctoral student at Ohio State University.**

# How big were they?

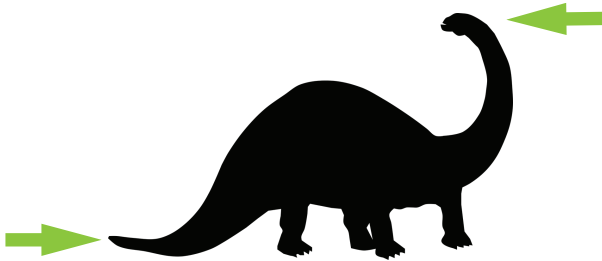
Dinosaurs went extinct about 65 million years ago. They were some of the largest creatures to rule the planet. Try to match each dinosaur's body part to an item that is the same length.



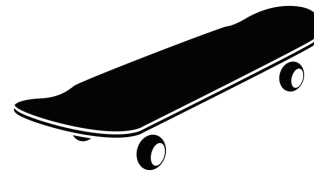
A *Tyrannosaurus* tooth



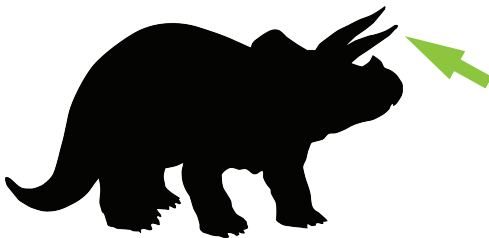
A guitar



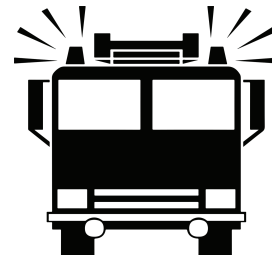
An *Apatosaurus* from head to tail



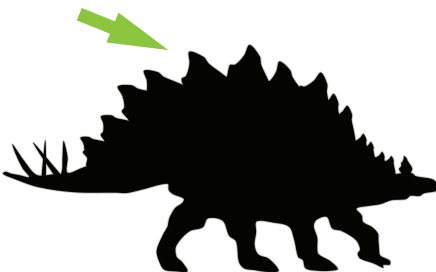
A skateboard



A *Triceratops* horn



2 fire trucks



A *Stegosaurus* spike



A banana



# Go visit Bucky the *T. rex* in the Exhibit Hall!

Here are some fun facts about Bucky:

- A young rancher and rodeo cowboy named Bucky Derflinger discovered the remains of this dinosaur in 1998. That's how Bucky the *T. rex* got its name.
- Most of the fossilized bones were scattered and difficult to find. The dig site for its bones was about half the size of a football field.
- Bucky wasn't fully grown, but even as a teenage this *T. rex* was over 34 feet long!
- This *T. rex* was discovered with a bone called a furcula, which is also known as a wish-bone.
- Bucky lived in the late Cretaceous Period, around 65 million years ago.

Now share at least one fact with someone at the meeting!



Bucky is visiting us from The Children's Museum of Indianapolis. To see more awesome dinosaurs like Bucky, visit the museum at 3000 N. Meridian St., Indianapolis, IN 46208 ([www.childrensmuseum.org](http://www.childrensmuseum.org)).

From 3–10 November 2018, show your convention badge at the box office of The Children's Museum of Indianapolis and receive a 20% discount on day-of admission for you and your family.

# Official GSA Junior Geologist Certificate

"I \_\_\_\_\_, as a GSA Junior Geologist, promise to advance geoscience research and discovery, service, to society, stewardship of Earth, and the geosciences profession."

.....  
Junior Geologist's Signature

.....  
GSA Staff Signature

.....  
Date



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