LET'S LEARN ABOUT

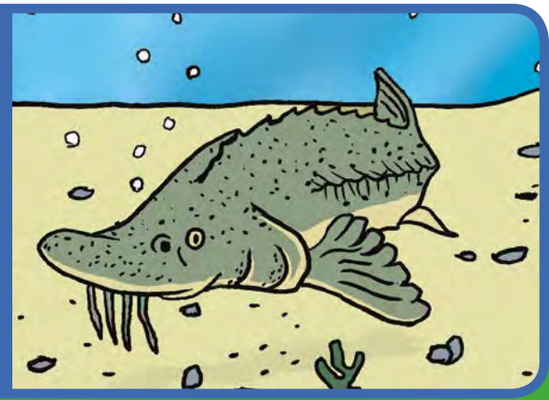
Underwater Habitats

There are many different types of underwater habitats on Earth. The oceans, Earth's biggest habitat, are filled with salt water. Lakes, rivers, ponds, and wetlands are freshwater habitats. Each type of underwater habitat has great diversity, which means different kinds of plants and animals live there.

Read about each animal. Then draw a line to its freshwater habitat.

Are there any underwater habitats near where you live? Which animals might live there?

Lake sturgeon are big fish. They can weigh up to 200 pounds and live in big, open bodies of water.



The **electric eel** lives in rivers. It makes an electric current to shock its prey.

The **bowfin** is also called a mudfish because it can live in shallow, muddy water.

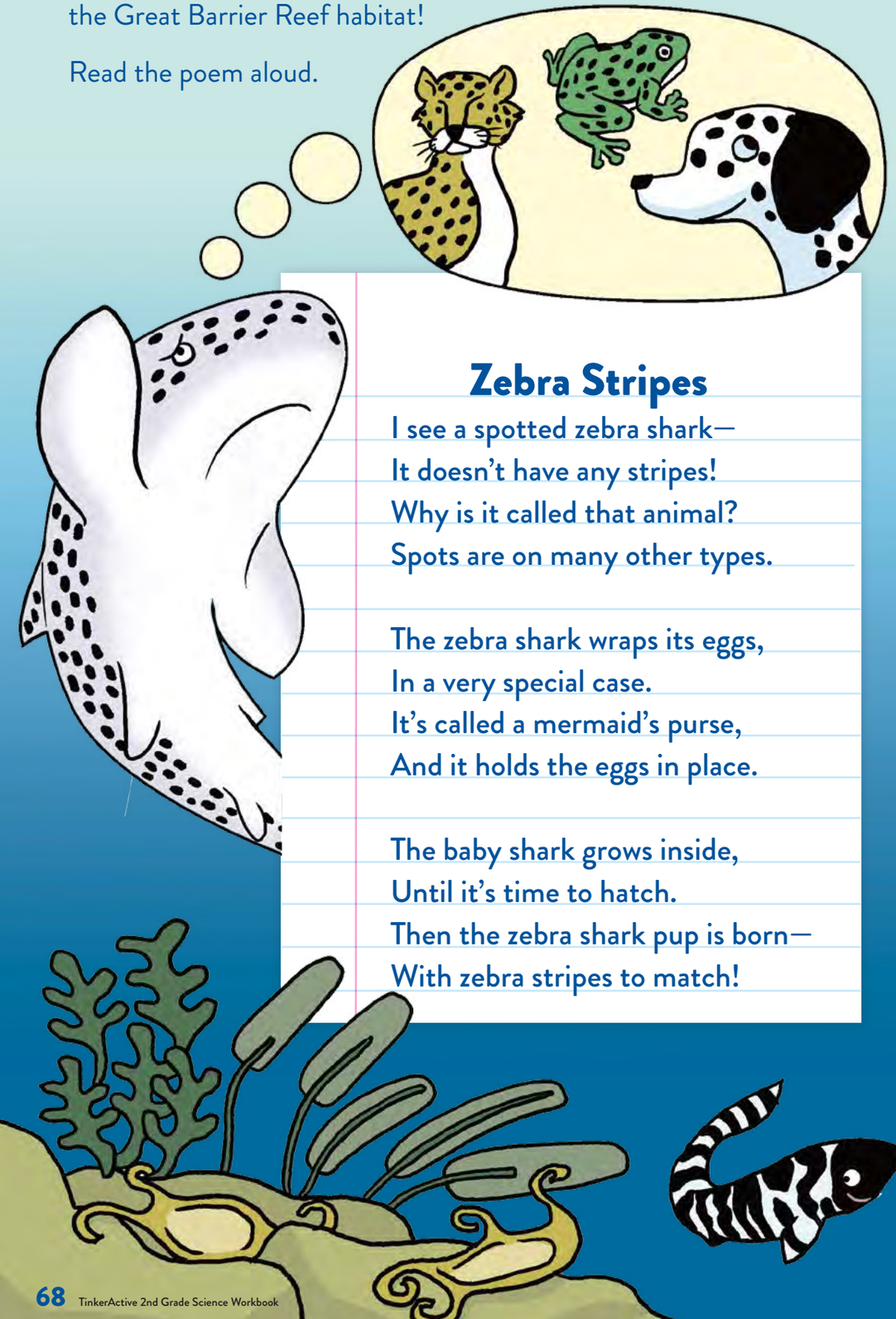
Amazon river

American wetlands

Great Lakes

The Great Barrier Reef is a saltwater ocean habitat off Australia. It is an enormous, colorful coral reef that thousands of plants and animals call home. Over a hundred different species of sharks live in the Great Barrier Reef habitat!

Read the poem aloud.



Zebra Stripes

I see a spotted zebra shark—
It doesn't have any stripes!
Why is it called that animal?
Spots are on many other types.

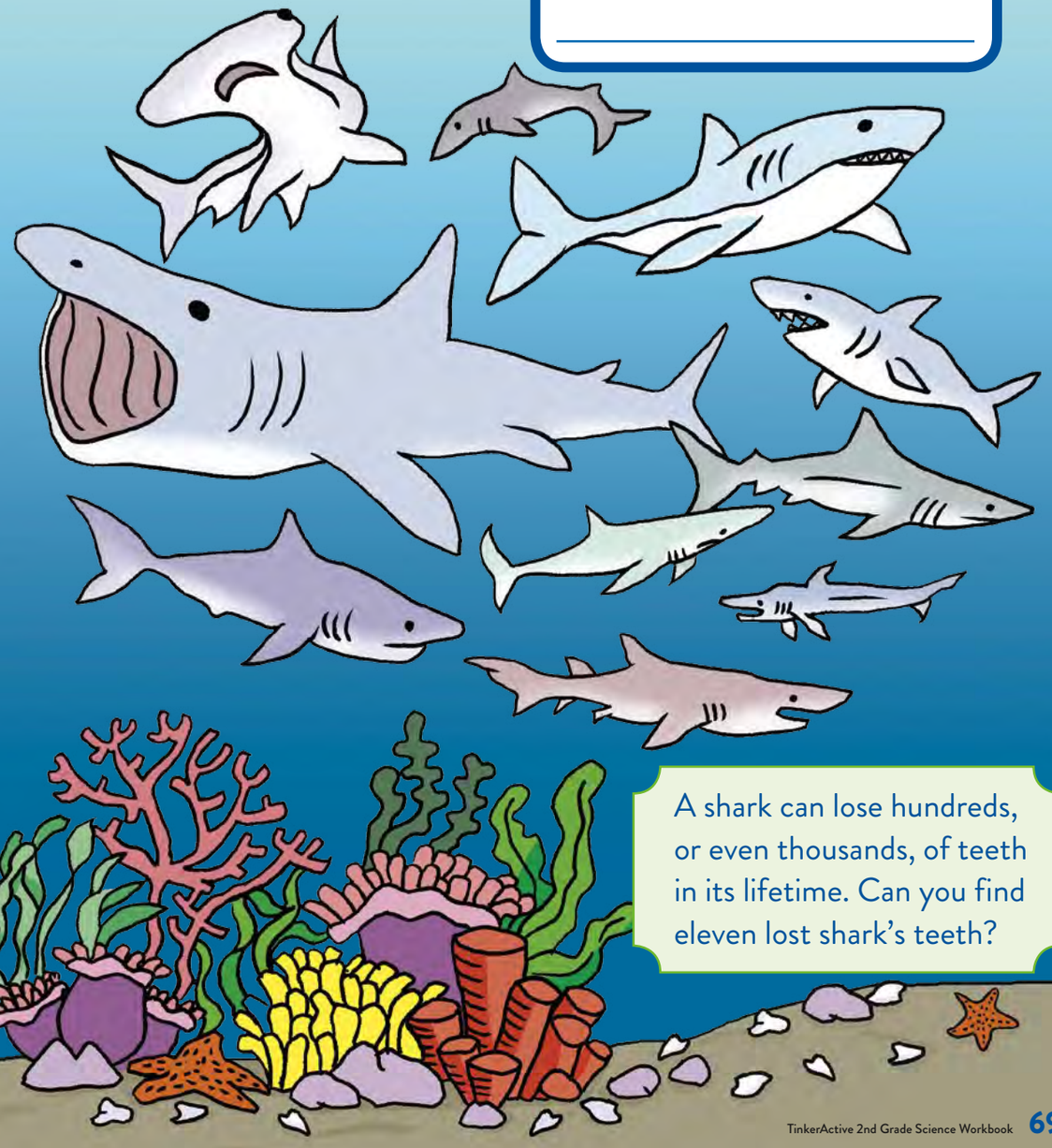
The zebra shark wraps its eggs,
In a very special case.
It's called a mermaid's purse,
And it holds the eggs in place.

The baby shark grows inside,
Until it's time to hatch.
Then the zebra shark pup is born—
With zebra stripes to match!

Look at the different sharks in this picture. Then draw a line connecting your two favorite sharks.

How are they the same?

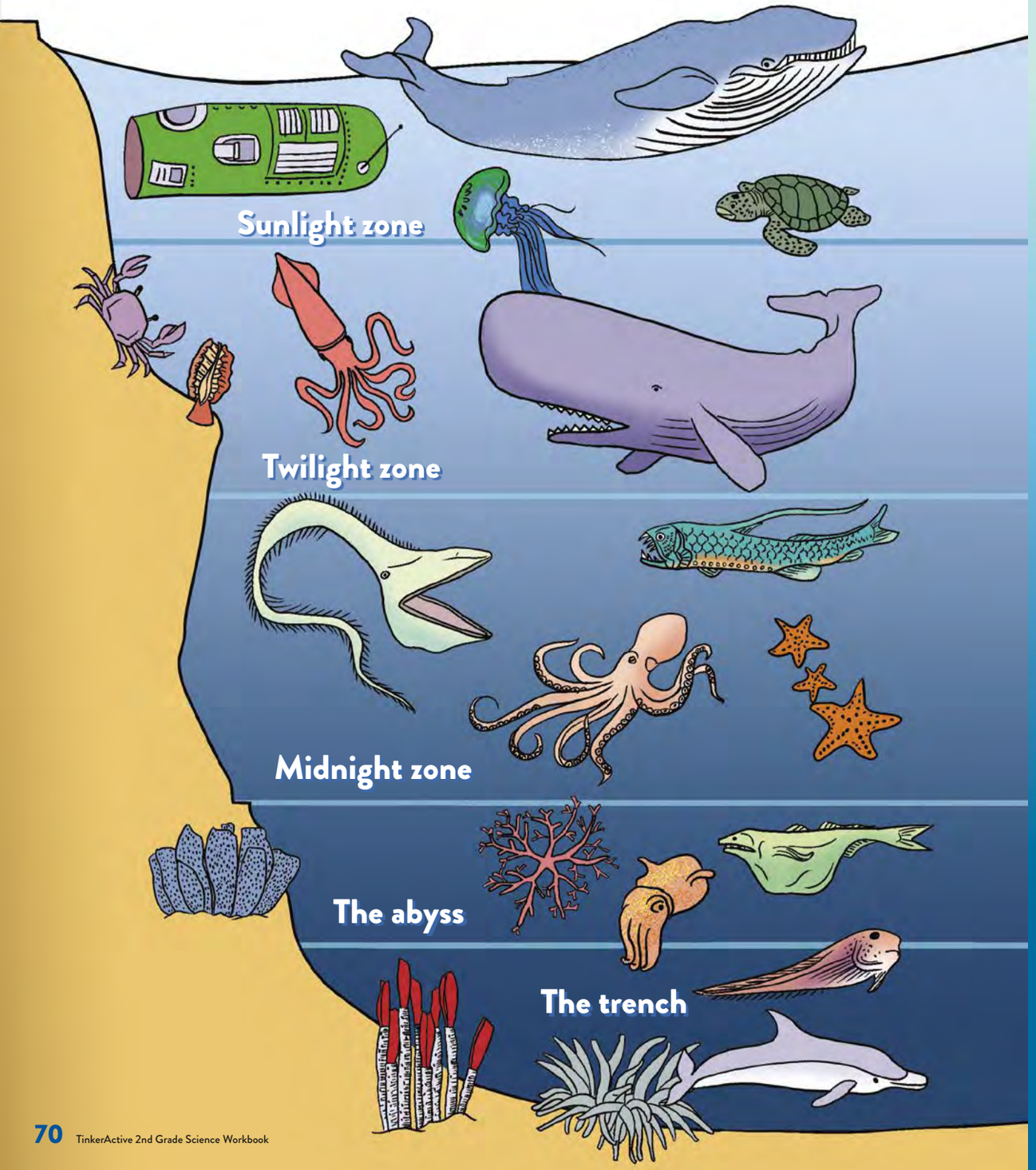
How are they different?



A shark can lose hundreds, or even thousands, of teeth in its lifetime. Can you find eleven lost shark's teeth?

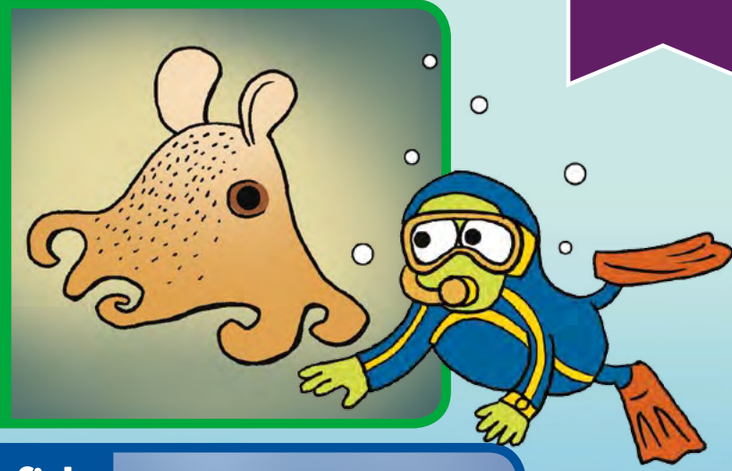
There are many different habitats at all levels of the ocean. There are tide pools along the shore, kelp forests underwater, seafloor trenches so deep people have never explored them, and many others.

Look at the levels of the ocean. Draw a line to lead the submarine to the the ocean trench.

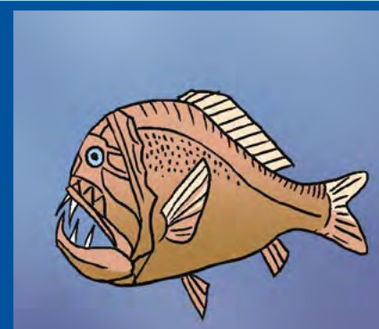


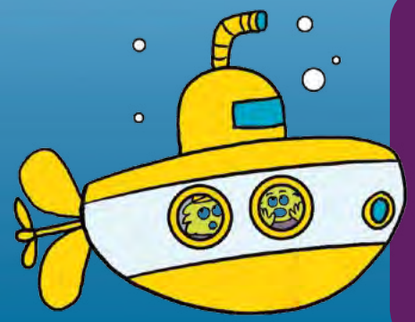
Two of these ocean creatures are real, but one is made up. Cross out the animal you predict is not real, and write about how you came to this conclusion.

The **dumbo octopus** has two fins that look like ears. The octopus flaps these fins to move. It swims along the seafloor looking for snails, worms, and other food.



The **fangtooth fish** has giant teeth, but its entire body isn't much larger than your hand. Its teeth help it capture prey of any size that wanders in the trenches.





The **tube shark** has rows of tubes on its back to help it blend in with tube worms on the ocean floor. It lives and hunts in the sunlight zone.

LET'S START! GATHER THESE TOOLS AND MATERIALS.


Flashlight


Sheets or pillowcases


Markers


Paper


6 or more drinking straws


Scissors


Glue


Shoebox


4–6 rocks


4–6 rubber bands

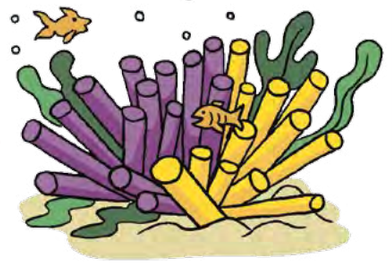
LET'S TINKER!

There is plenty of bright light at the top of the ocean, but in some places, the water goes so deep that no light reaches there—it is completely dark.

Go to a dark place, like a closet. Then **use** your materials to show light and dark. If you can, **show** some shades of light in between as well.

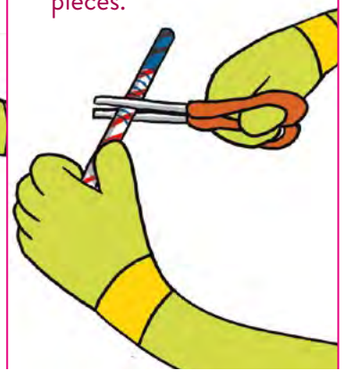
LET'S MAKE: COLORFUL CORAL

Corals are colorful animals that live together in the ocean. They make hard outer shells that form coral reefs. Make a model of corals with your materials.



1. Color each drinking straw a different color.

2. Cut them into small pieces.



3. Glue the pieces to the paper upright like coral.

LET'S ENGINEER!

Dimitri is thinking about getting a pet goldfish. But he doesn't know what his goldfish will need, and he's worried that it won't like living with him.

How can Dimitri prepare for his goldfish?

Build a model of a fish tank using the shoebox. Think about a goldfish's natural habitat.

- **What plants should live in the tank?**
- **Should there be other animals in it?**
- **Which materials can represent these plants and animals?**

PROJECT 9: DONE!
Get your sticker!

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TINKER

MAKE

ENGINEER

The NEW way to
LEARN THROUGH PLAY!

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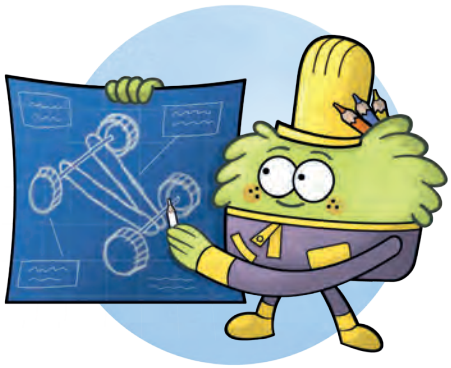
DEAR READER,



At the TinkerActive workshop, our mission is to inspire a generation of fearless **learners**, **makers**, and **problem solvers**. We all know that kids have to learn the ABCs and 123s. But the future belongs to the children who learn to think beyond the basics.

So we designed **TINKERACTIVE WORKBOOKS** to do both: build children's foundational knowledge ***and*** encourage them to try new things, discover new skills, and imagine new possibilities. That's what "Tinker, Make, and Engineer" means to us, and we believe that it can lead to lifelong learners who create a better world.

Tinker — TRY NEW THINGS

Make — DISCOVER NEW SKILLS

Engineer — IMAGINE NEW POSSIBILITIES

SO HOW DO WE DO IT?

Each chapter includes **curriculum-based activities** as well as tinkering, making, and engineering projects, where kids can actually use the concepts they just learned to solve problems hands-on.

Every TinkerActive Workbook has been created in consultation with an **award-winning teacher** to ensure that we cover the core competencies and align with Common Core State Standards and Next Generation Science Standards.

We also include **achievement stickers** for each project, and a **secret magnetic merit badge** so kids can celebrate their accomplishments!

CLOSE-UP OF MERIT BADGE

Our goals are to cheer on your child, to ask, "Why do you think that?" and to help them explore all the possible answers. By supporting your child's innate curiosity, who knows what we might learn together!

Visit **TinkerActiveWorkbooks.com** to learn more about the workbook series and share your workbook fun with **#TinkerActive**.

Yours in discovery,
THE TINKERACTIVE TEAM

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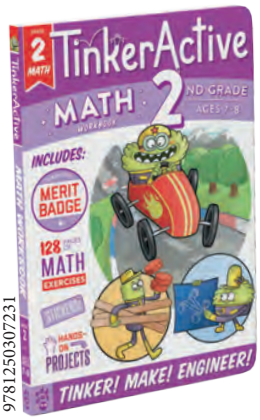

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