Parts of a Plant

LET'S LEARN

ABOUT

Plants have different parts that help them live and grow.

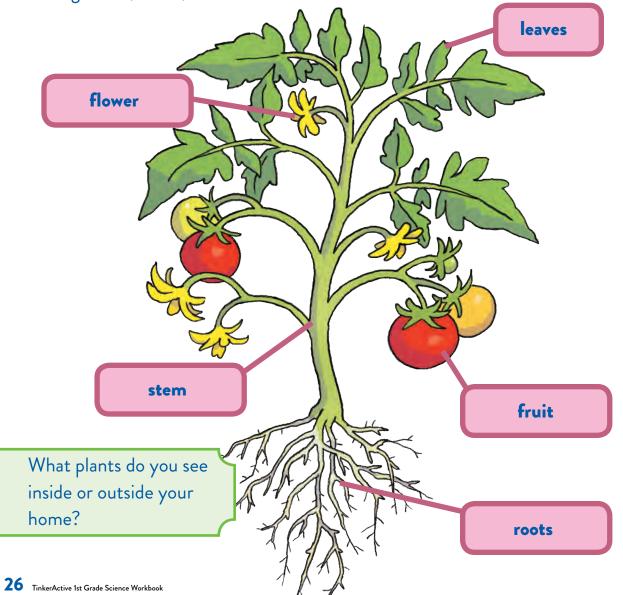
Roots collect water and nutrients, and they hold the plant firmly in the ground.

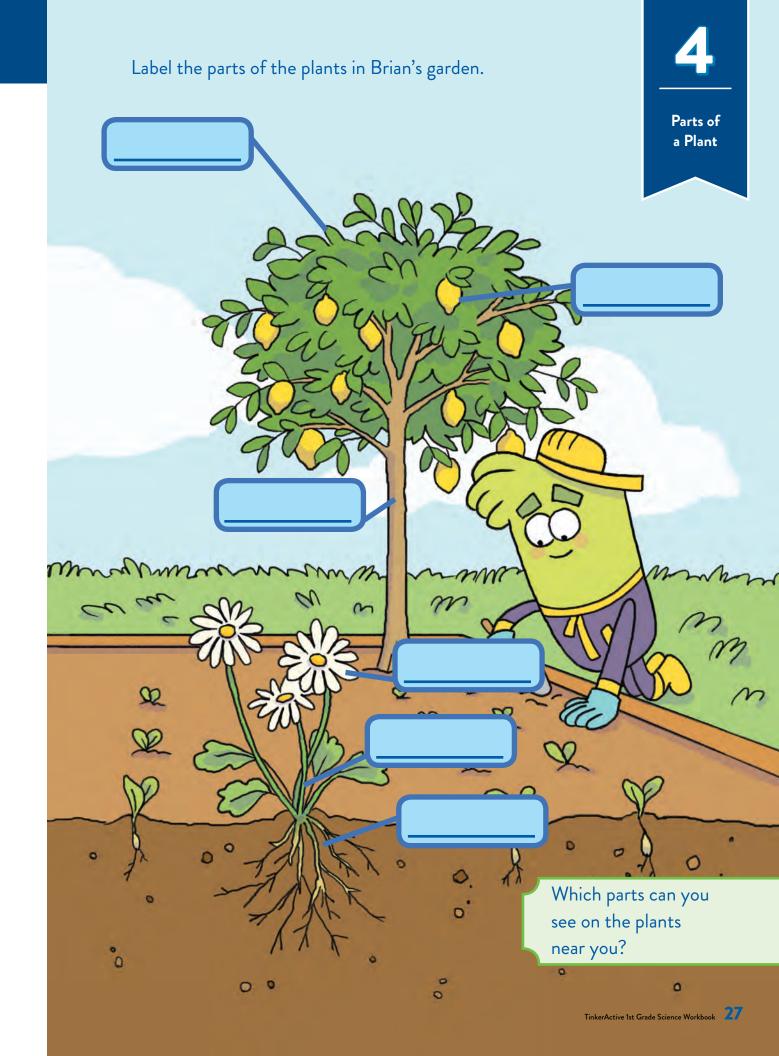
A **stem** or **trunk** holds the plant or tree up and transports water and nutrients to the leaves, flowers, and fruits.

Leaves collect sunlight and make food for the plant. They also make oxygen.

Flowers grow seeds for the plant.

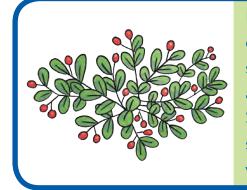
Fruits provide protection for the seeds. They also help spread the seeds through wind, water, or animals.





Plants use their different parts to help them live and grow in different habitats.

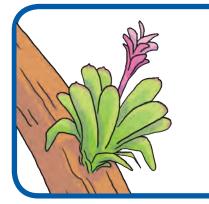
Connect each plant to its habitat.



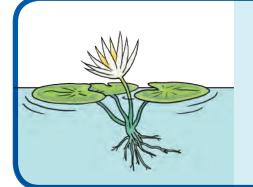
Bearberry plants have dark leaves and low stems. This helps them absorb heat from the Sun and from Earth so they can survive in very cold temperatures.



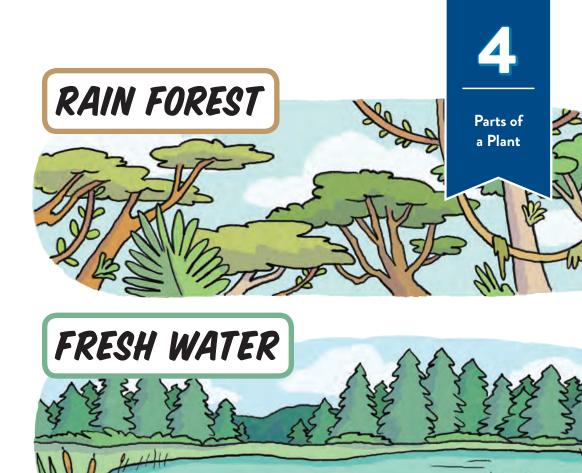
Agave leaves have a waxy coating to protect the water inside the plant. This helps them survive in hot habitats with little rainfall.



Bromeliads grow on other plants instead of in the ground. This helps them get closer to the Sun when the plants around them are tall.



Water lilies have stems and leaves that can bend and move. This helps them live in underwater habitats.



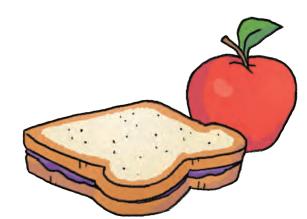


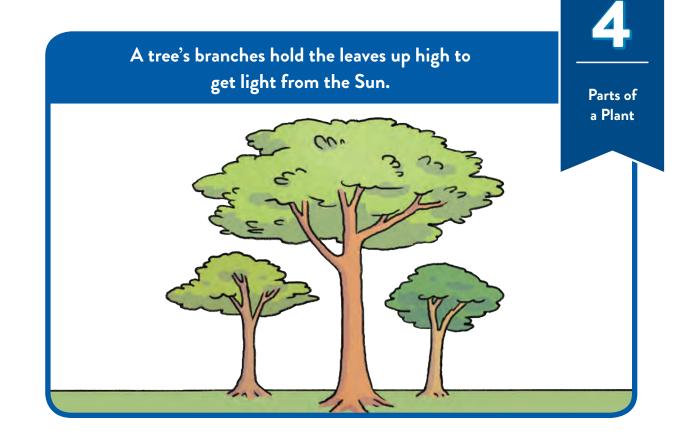


Look at how each plant uses its parts to live and grow. Then design your own solution to each problem.

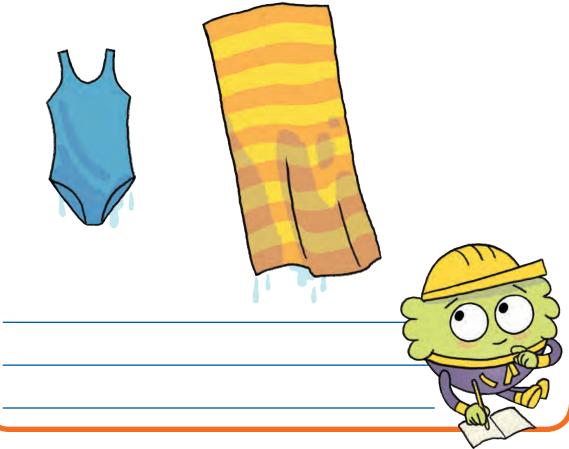
A peanut shell protects the seeds inside.

Write about and draw a solution you can use to protect your lunch on the way to school.





Write about and draw a solution you can use to hold a wet swimsuit and towel up to the Sun to dry.



LET'S START! GATHER THESE TOOLS AND MATERIALS.



LET'S TINKER!

Play with your materials to create pictures or sculptures of plant parts. Can you **make** seeds, fruits, leaves, flowers, roots, and a stem or trunk?





LET'S MAKE: RAINBOW ROOTS!



4. Fold the paper towel strip in half and **place** it over a spoon balanced on top of the cup. The ends of the paper towel should dip into the water.







PROJECT 4: DONE! Get your sticker!



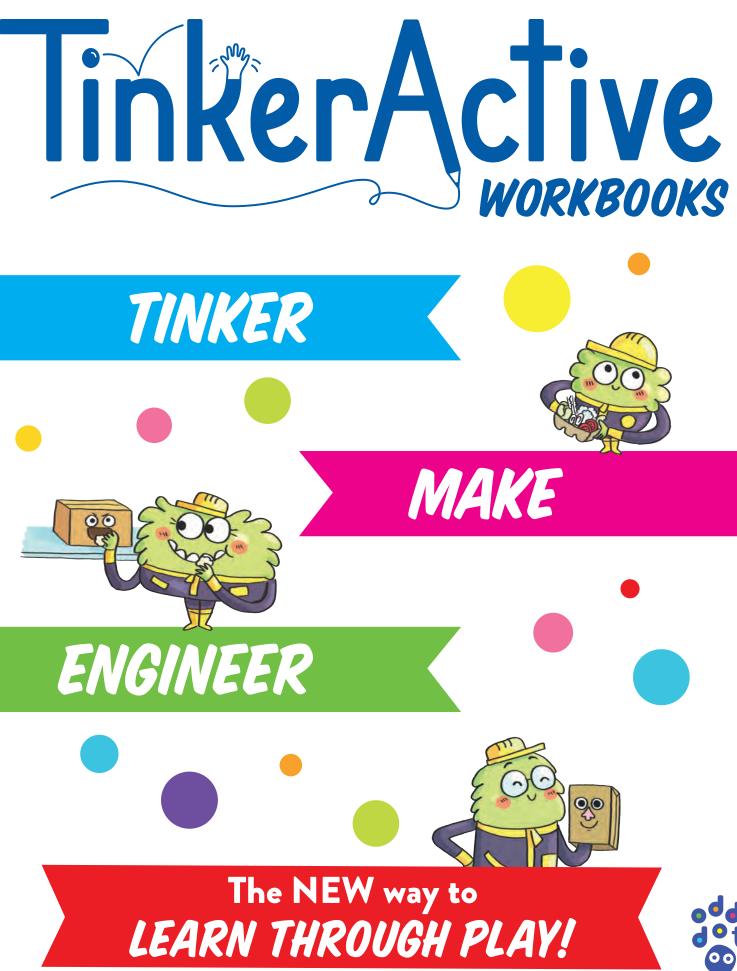
LET'S ENGINEER!

Dimitri is constructing a toy castle and he wants to add a tower. But Dimitri's tower keeps falling over! He knows that the stem and trunk hold a plant up, and the roots hold it firmly in the ground.

How can he build a tower that won't fall over?

Design a tower that stands strong and tall, just like some plants do. Which materials can help you build it taller? Which can help you build it stronger?

Try putting your tower on a table and then shaking the table. Is your tower still standing? If not, build it stronger.



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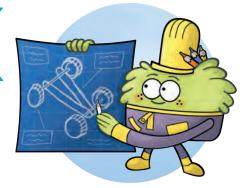


Discover a New Way to Learn Through Play with TinkerActive!

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.

Inker



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.





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!

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!

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DISCOVER ALL THE TinkerActive!



Perfect for grades **K-2**, each **TinkerActive** workbook comes with 128 pages of interactive **curriculumbased exercises** and exciting **hands-on projects** that utilize common household materials and encourage children to **learn through play**.





















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