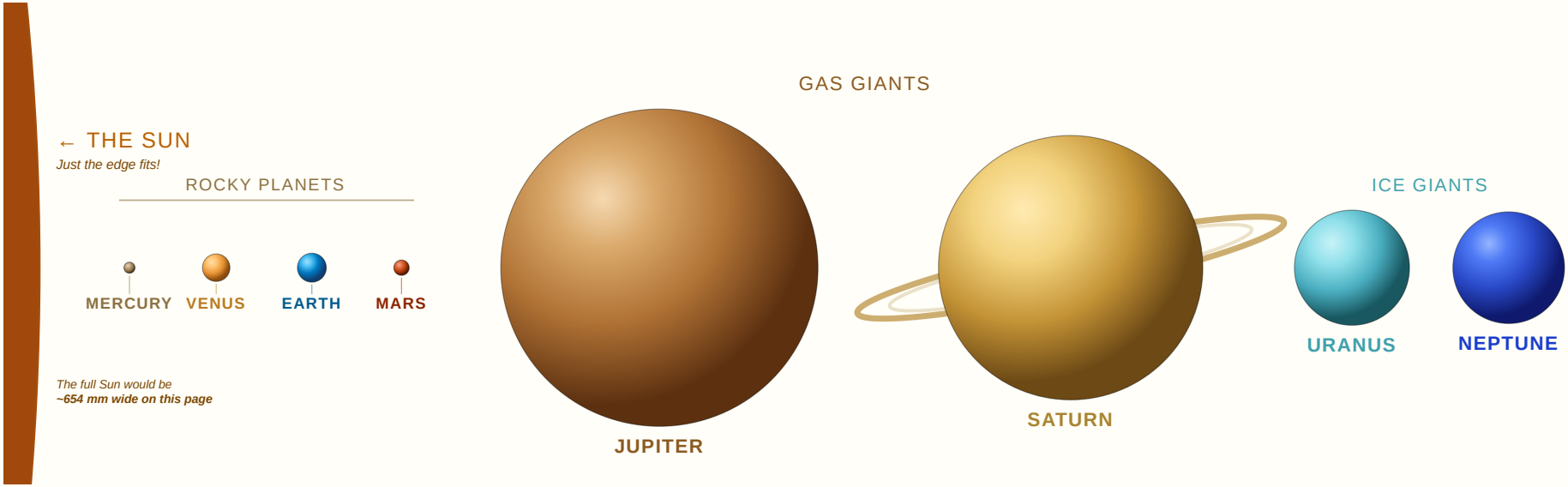
# PLANET SIZES

*HOW BIG ARE THE PLANETS COMPARED TO EACH OTHER?*

AGES 5–12




*All planets shown* **at the same scale** *— Earth is 6 mm wide here (about a small pea). The inner planets are so tiny next to Jupiter that they're easy to miss!*

## IF EARTH WERE A MARBLE… HANDS-ON

*Each planet matched to an everyday object. Gather these from your kitchen and lay out your own solar system!*

| | | |
|---|---|---|
| MERCURY | **a pinhead** | *~4 mm* |
| VENUS | **a peppercorn** | *~9.5 mm* |
| EARTH | **a small marble** | *10 mm* |
| MARS | **a blueberry** | *~5 mm* |
| JUPITER | **a grapefruit** | *~110 mm* |
| SATURN | **an orange** | *~91 mm* |
| URANUS | **a walnut** | *~40 mm* |
| NEPTUNE | **a walnut** | *~39 mm* |

## TRY IT WITH YOUR CLASS 3 ACTIVITIES

### ★ BUILD A FRUIT-BOWL SOLAR SYSTEM *NEEDS: KITCHEN ITEMS*

Bring in (or ask kids to bring) the objects in the table on the left. Lay them out on a table — the WOW moment is seeing how tiny the rocky planets are next to Jupiter!

### ★ GUESS BEFORE YOU REVEAL *NO SUPPLIES — JUST THIS SHEET*

Cover the planet labels above with paper. Show kids the sizes only and ask them to guess which planet is which. Reveal and discuss surprises!

### ★ WALL POSTER CHALLENGE *NEEDS: PAPER, SCISSORS*

Each child picks a planet and draws it at the size given in the table. Cut out and arrange on a wall — bigger kids can also add a fact card next to theirs.



*Sizes use real planet diameters · Sun's radius = 695,700 km · Earth's diameter = 12,742 km*