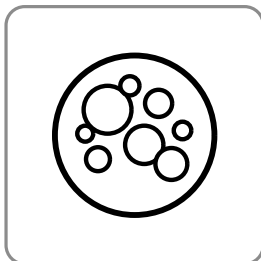
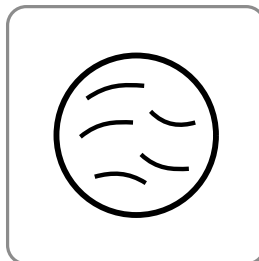
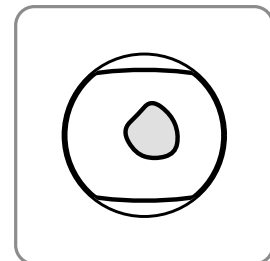
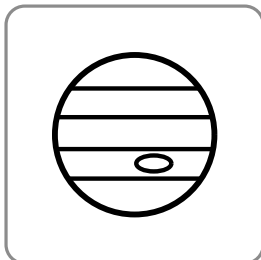
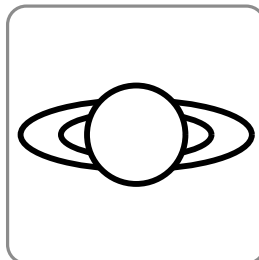
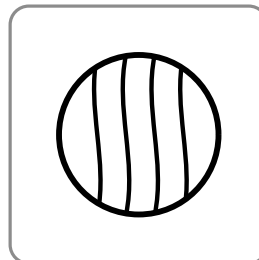
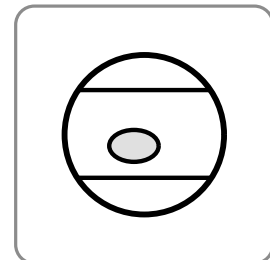


THINK LIKE A SCIENTIST • EARTH, SKY & SPACE

Circle the planet we live on.

Read the name under each planet.

F4 circle the group**Mercury****Venus****Earth****Mars****Jupiter****Saturn****Uranus****Neptune**

These cards are all the same size. The planets are not.

☐ I circled one.

FOR GROWN-UPS

Earth is the third planet from the Sun. It is the only one with liquid water on the outside.

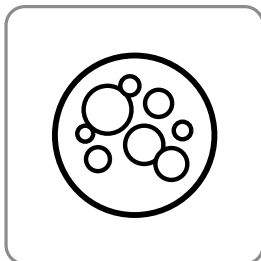
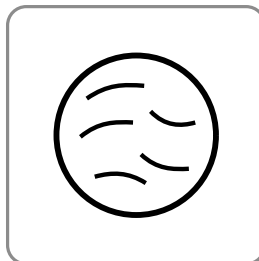
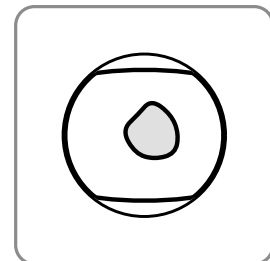
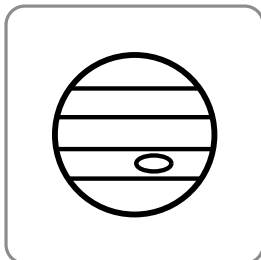
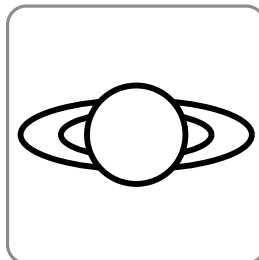
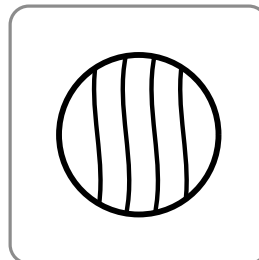
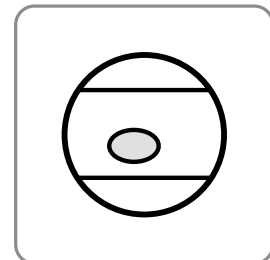
Ask them to say the rule in their own words before they circle anything.

Look for it in the sky tonight.

THINK LIKE A SCIENTIST • EARTH, SKY & SPACE

Saturn has two neighbors. Circle Jupiter and Uranus.

Read the names. Saturn is in the middle of them.

F4 circle the group**Mercury****Venus****Earth****Mars****Jupiter****Saturn****Uranus****Neptune**

These cards are all the same size. The planets are not.

☐ I circled two.

FOR GROWN-UPS

The planets go round the Sun in a fixed order. Saturn is sixth, between Jupiter and Uranus.

Ask: "How did you know?" Then wait. The wait is the lesson.

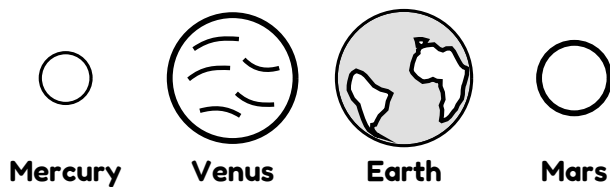
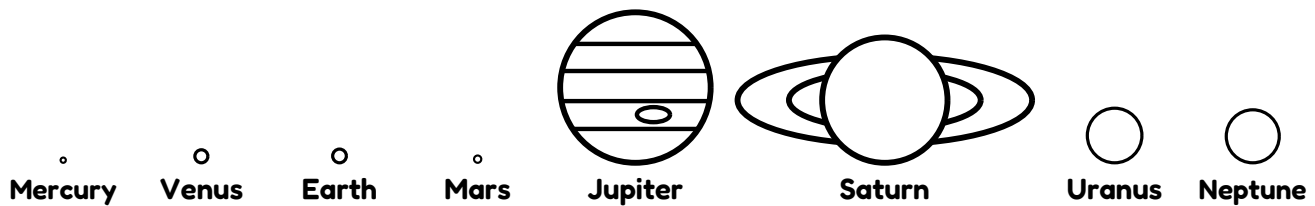
Look for it in the sky tonight.

THINK LIKE A SCIENTIST • EARTH, SKY & SPACE

Circle the smallest planet.

These eight are drawn at their real sizes next to each other.

S4 how big, really



the four rocky planets, drawn bigger so you can see them

☐ I circled one.

FOR GROWN-UPS

Mercury is the smallest planet, and it is the nearest to the Sun. Jupiter is eleven Earths across.

Ask: "Which is bigger?" before either of you reads a number.

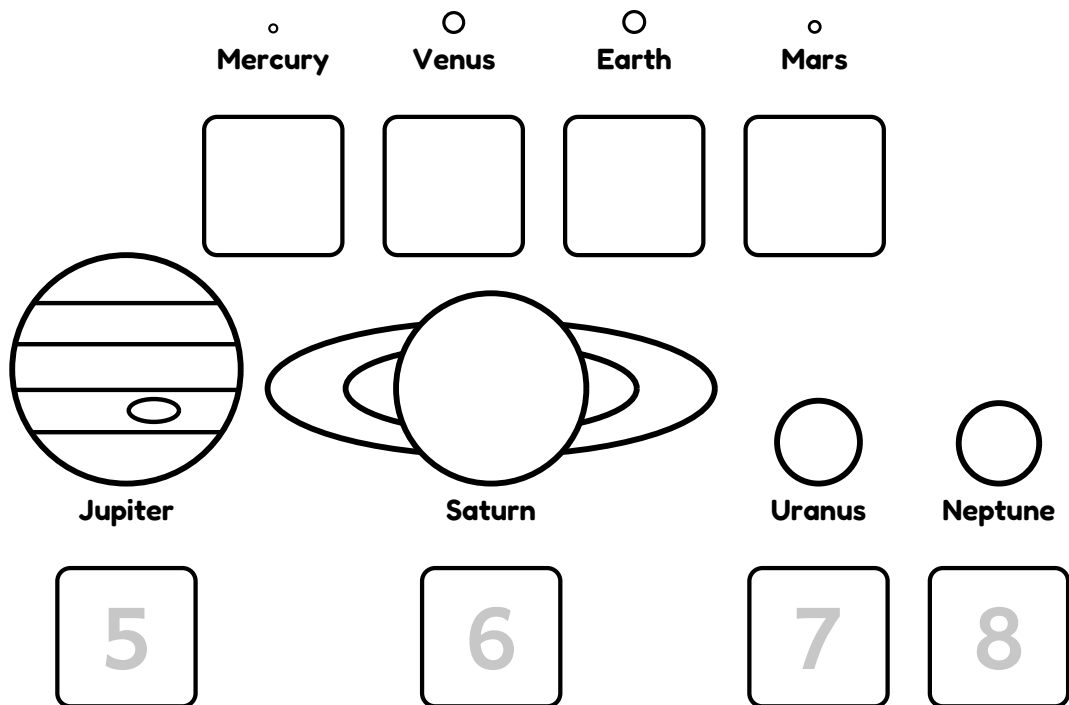
Look for it in the sky tonight.

THINK LIKE A SCIENTIST • EARTH, SKY & SPACE

Write 1 to 4 on the four planets nearest the Sun.

Mercury is 1. The last four are already numbered.

S4 how big, really



○ Every box has a number.

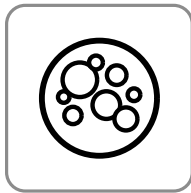
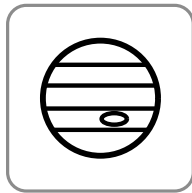
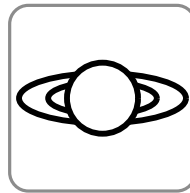
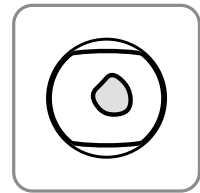
FOR GROWN-UPS

The four nearest the Sun are small and rocky. The four beyond them are giants made mostly of gas. Hold your hands apart to show the difference. Size is a body thing first. Look for it in the sky tonight.

THINK LIKE A SCIENTIST • EARTH, SKY & SPACE

Sort the planets. Draw a line to the right box.

Four are small and rocky. Two are giants made of gas.

F3 sort**Mercury****Jupiter****Venus****Saturn****Earth****Mars****ROCKY****GAS GIANT**

These cards are all the same size. The planets are not.

☐ Everything has a box.

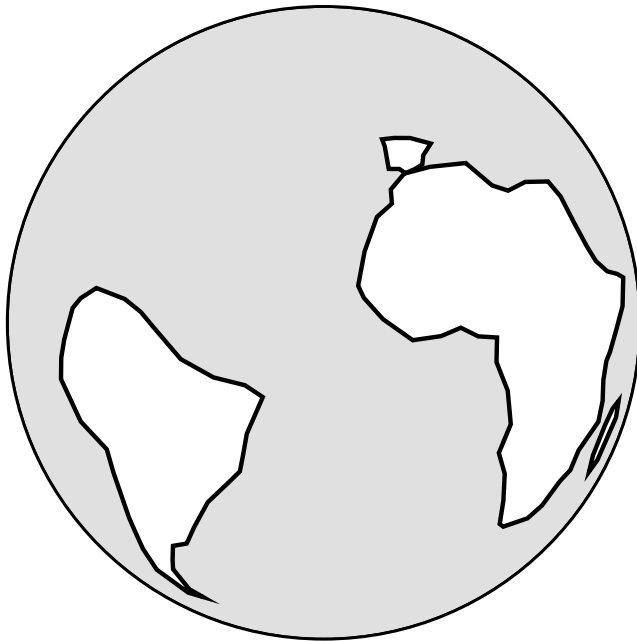
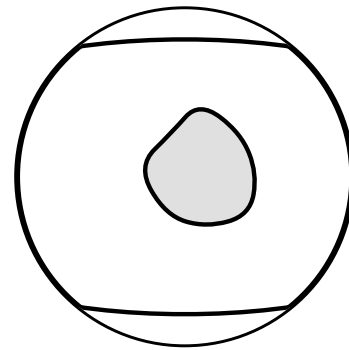
FOR GROWN-UPS

You could stand on Mercury, Venus, Earth or Mars. Jupiter and Saturn have no ground to stand on. Let them sort the sure ones first. The leftovers are the real work. Look for it in the sky tonight.

THINK LIKE A SCIENTIST • EARTH, SKY & SPACE

Circle the bigger one.

The Earth and Mars, drawn next to each other at the right sizes.

S4 how big, really**Earth****Mars**☐ I circled one.**FOR GROWN-UPS**

Mars is about half as wide as the Earth. It is the planet people talk about visiting next.

Ask: "Is it a little bigger or a lot bigger?" That is the harder question.

Look for it in the sky tonight.