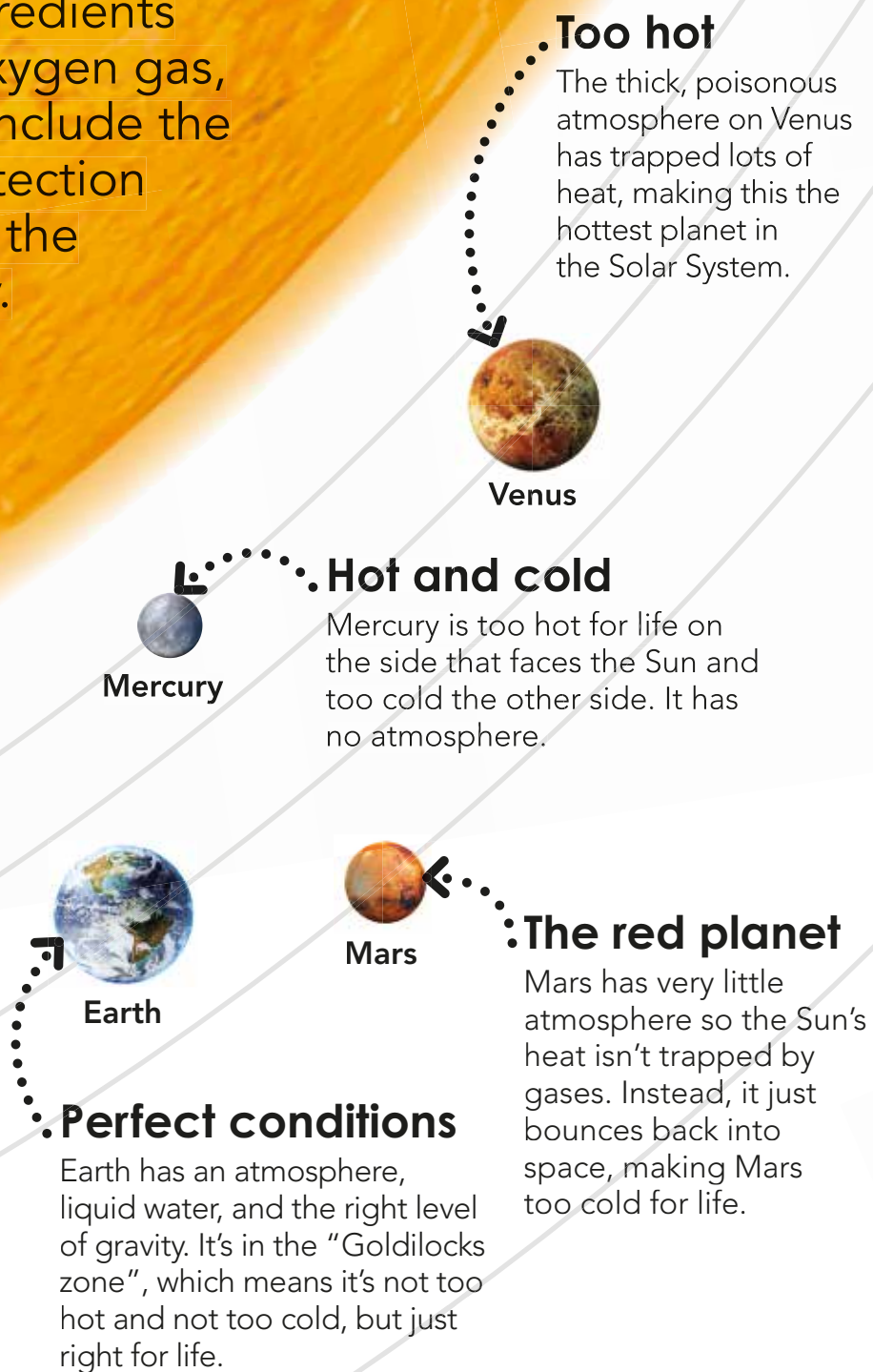


Can we live on other planets?

A planet needs the perfect ingredients and conditions for humans to survive. Ingredients include liquid water, oxygen gas, and food. Conditions include the right temperature, protection from harmful rays, and the right amount of gravity.

Sun

An atmosphere is a layer of gases around a planet.



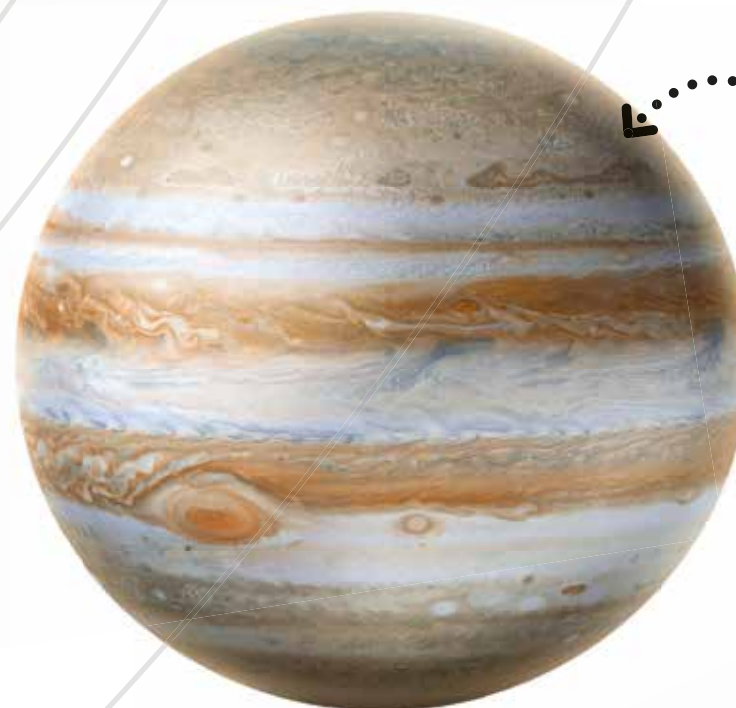
Can distant planets support life?



Kepler 186f
This rocky planet is in the "Goldilocks zone" of its planetary system and may have water on it. But it would take 500 years to get to Kepler 186f, even if we could travel at the speed of light.

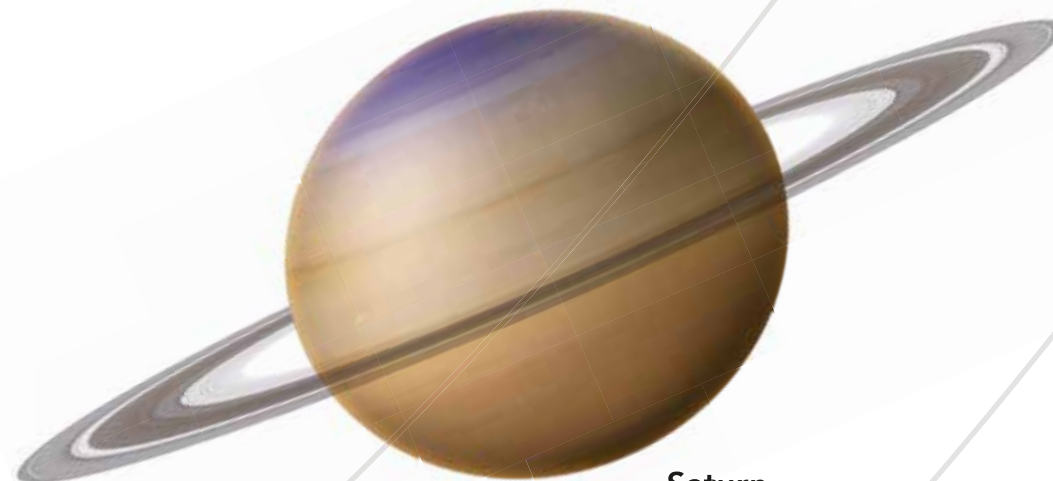


Kepler 452b
This planet is close in size to Earth and orbits a star similar to our Sun. It is in the "Goldilocks zone" of its planetary system, but scientists do not yet know if it has water.



Jupiter

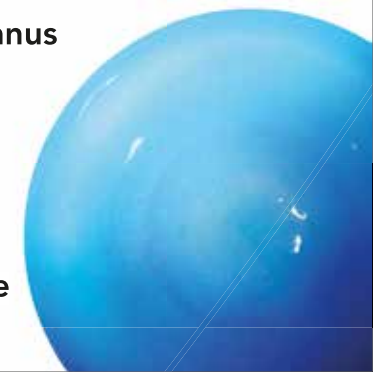
Gas giants
The four outer planets are made from gas so they don't have a solid surface. They are so massive that their gravity would squash us.



Saturn



Uranus



Neptune

? Quick quiz

1. Which planet used to be similar to Earth?
2. Why don't we travel to planets outside of our solar system?
3. What are planets from outside our own solar system called?

See pages 132-133 for the answers