



#### Meet Earth's sister planet, VenusI page 106

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What color is snow? page 140

### OUR MARVELOUS MOON

Earth's moon is a NATURAL SATELLITE that orbits around our planet about once every 27 days.

The Moon is one-quarter the size of Earth.

A small planet smashed into Earth billions of years ago, blasting magma, rock, and dust into orbit—which eventually became the Moon.

THE LARGE, DARK SPOTS ON THE MOON ARE CALLED "SEAS," BUT THEY ARE ACTUALLY LAVA ROCK FROM ANCIENT VOLCANIC ERUPTIONS.



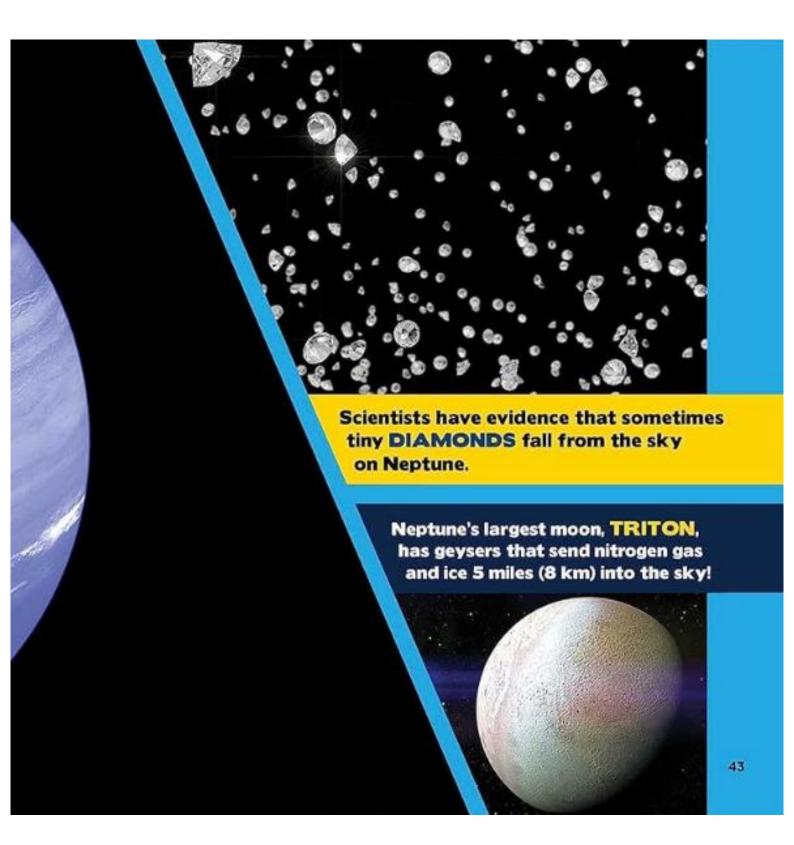
# THE OTHER BLUE PLANET

**NEPTUNE** is the farthest planet from the Sun in our solar system.

Because Neptune is 2.8 billion miles (4.5 billion km) away from the Sun, a sunny day on Neptune is 900 times darker than it is here on Earth.

Neptune winds can blow at speeds of 1,200 miles (2,000 km) per hour—the fastest in the solar system!

LIKE EARTH, NEPTUNE HAS FOUR SEASONS, BUT SINCE NEPTUNE TAKES 165 EARTH YEARS TO ORBIT THE SUN, EACH SEASON LASTS ABOUT 41 YEARS.



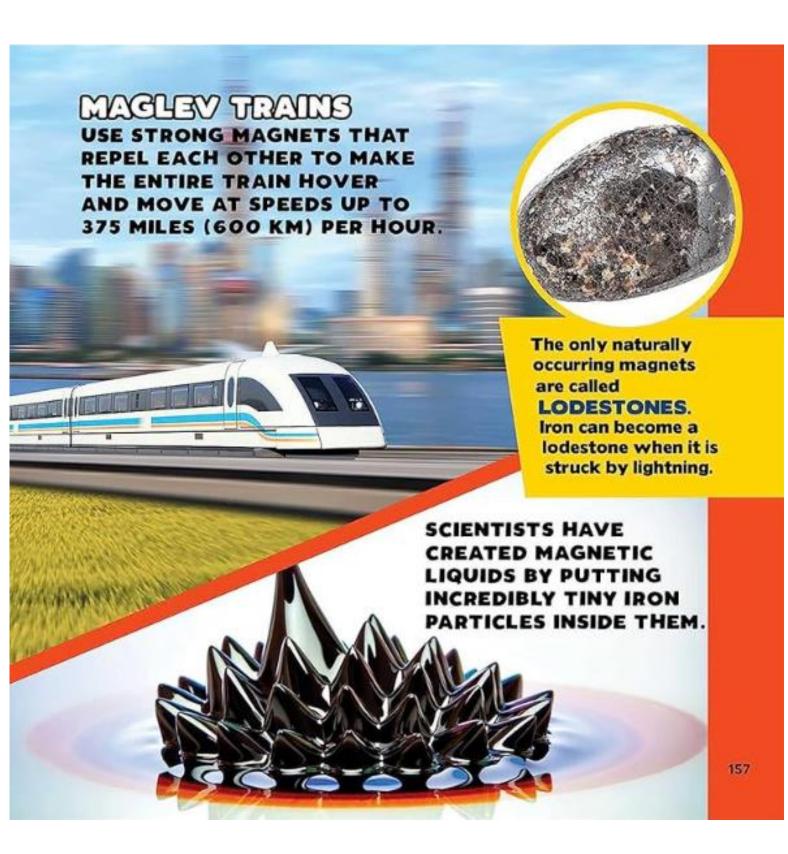
# OPPOSITES ATTRACT

A MAGNET is an object that produces an invisible magnetic field. Opposite poles of magnets attract each other and like poles repel each other.

Magnets are
usually made from
IRON, NICKEL, and
COBALT. Gold, silver,
copper, lead, and aluminum
cannot be magnetized.

The cells of living things are repelled by strong magnets.

A FROG put on a super-strong magnet will float.



## LET THERE BE LIGHT!

VISIBLE LIGHT is a collection of energy waves that we can see. Light includes all the colors.

TRAVEL THROUGH SPACE
WITH OTHER WAVES WE
CAN'T SEE, LIKE X-RAYS,
GAMMA RAYS, RADIO WAVES,
INFRARED LIGHT, AND
ULTRAVIOLET WAVES.

Scientists have created something called "ULTRA-BLACK" that absorbs all the light that touches it, even laser light.

Moonlight
shining through
water droplets
in the air will
create a faint
MOONBOW.



