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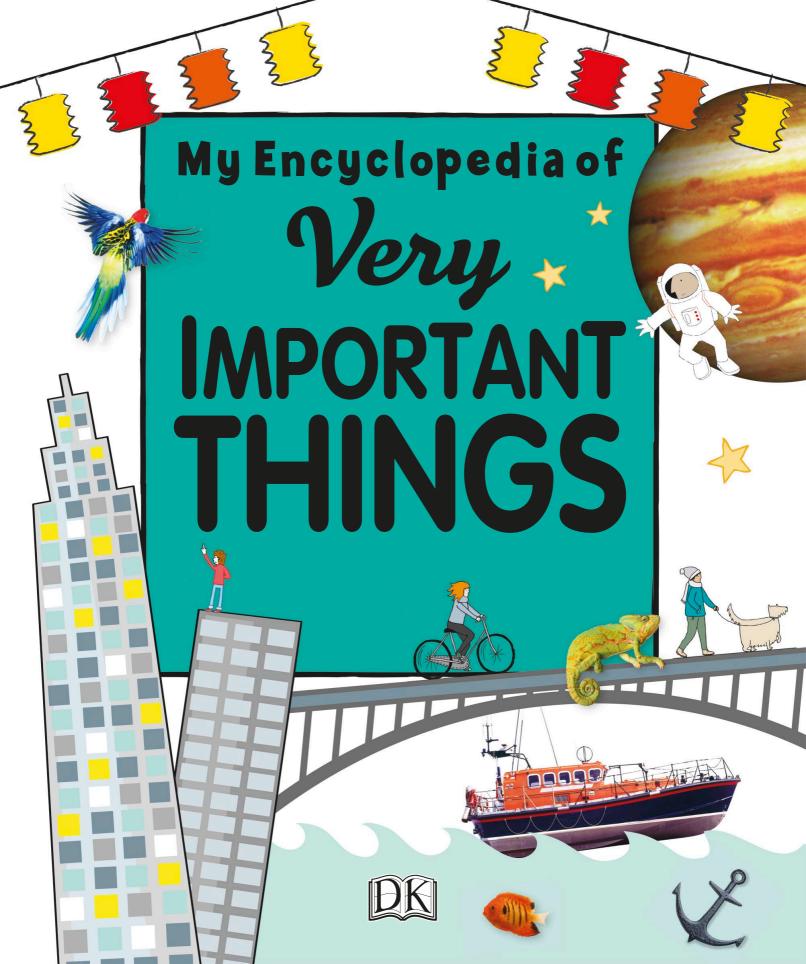
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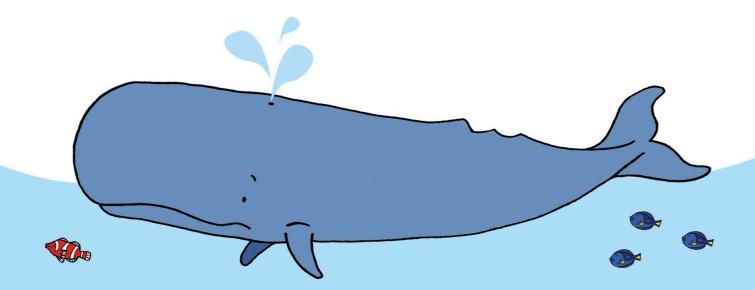


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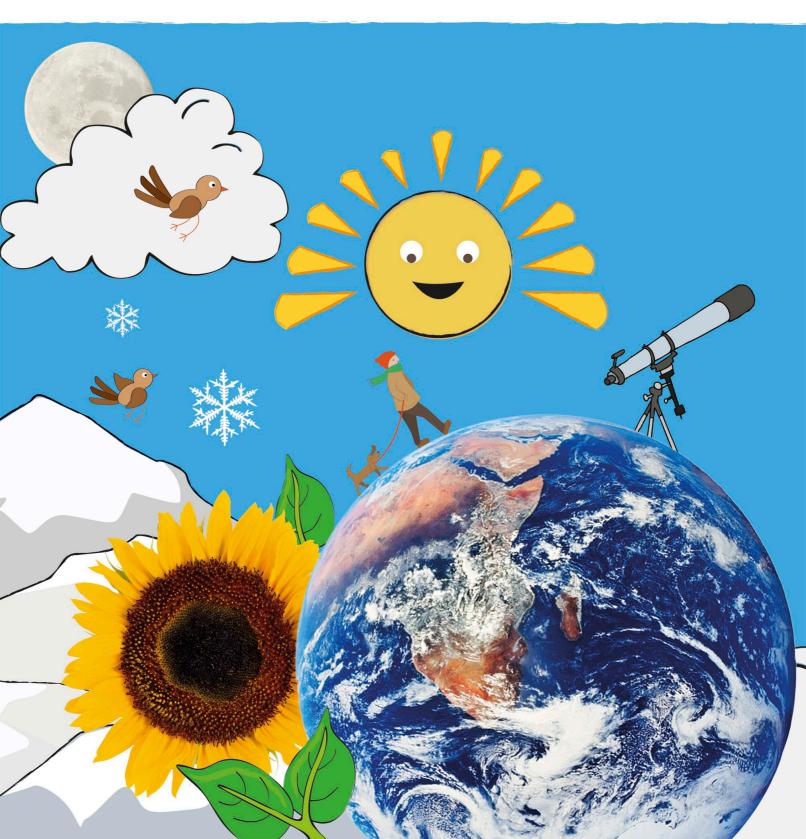
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Very important things about





my planet



Earth is our amazing home. It's covered with lush forests, dry deserts, and big blue oceans (so big that Earth looks blue from space.) Earth is the only planet that we know of where things can live, so it's a **very special** place!



Our place in space

Huge rocks float between Mars and Jupiter in an area called the asteroid belt.

Our planet (Earth) is in a group with seven other planets. This group is called the solar system. We live here

What are planets?

Planets are big round objects in space. Some are made of rock, and the others are big balls of gas. Most of them **orbit** (travel around) a star.

The sun is a star. Without its heat. no plants, animals, or people could survive on Earth. That includes you!

Earth Mercury Mars

Venus

The solar system is so big even the planets that seem close to each other are VERY far apart.





Neptune

No of Saturn are made of ICE and DUST.

Uranus

Uranus is different to the other planets, because it spins on its side.

It would take years to reach the edge of the solar system.

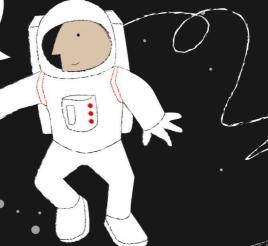
As far as we know Earth in "

where things live.

Jupiter

Neptune.

Uranus





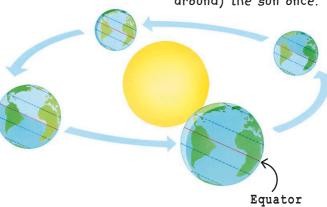


Our Earth

Earth is **our planet**. Most of it is covered by oceans. The rest of the planet's surface is land.

When the side of the Earth you live on faces the sun, it's daytime.

The Earth takes a whole year to orbit (move around) the sun once.



Where does the sun go at night?

The Earth is always spinning. As it does, the sun shines on different parts of the planet. This is why we have days and nights.

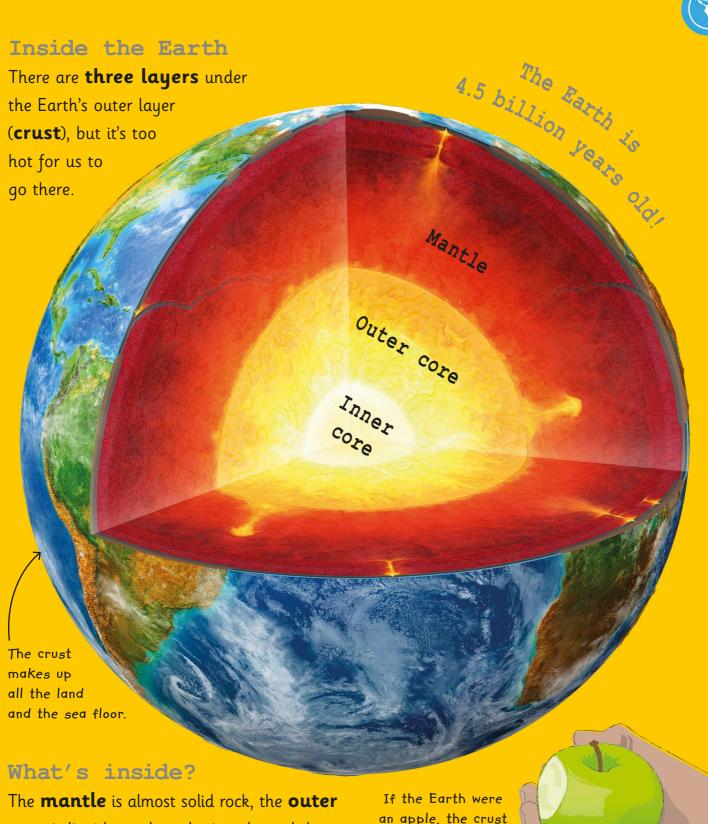
takes 24 hours to make one soil

The equator is an imaginary line around the middle of the Earth. Think of it like the Earth is wearing an invisible belt!

When the side of the Earth you live on turns away from the sun, it's nighttime.



Inside the Earth



core is liquid metals and minerals, and the **inner core** is solid metals and minerals.

an apple, the crust would only be as thick as the skin.

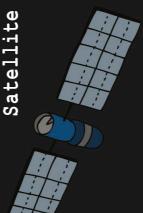


Which way is space:

If you could drive a car straight up, it would only take about an hour to reach space. On the way you'd pass through five layers of air called the atmosphere.

The top layer of the atmosphere doesn't end suddenly. It fades gradually farther into space.

signals to the world. Satellites orbit the up here. They send Earth all the way





This layer goes up really, REALLY Scientists say **space** starts here. high above the Earth

colorful aurora light

You can see the

near the North or show from places

South Poles.

Auroras

International Space Station

The Space Station is so big you can sometimes see it from the ground.

Brr! The air up here is **freezing** cold. The top of the mesosphere is the coldest place in the world.

Nacreous clouds

These beautiful clouds

are very rare.

protect us from the sun's rays.

ozone layer, which helps

This area is home to the

above the clouds to avoid bumps caused by wind. Jet planes fly

higher than any other bird Rüppell's vulture can fly



Hot air balloon





This is the lowest part of the happens in this bottom layer. atmosphere. All weather



Mesosphere

Stratosphere

Airplane

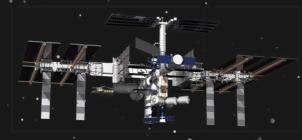
Troposphere



The sky at night

If you look up on a clear evening, the sky can be full of twinkling lights. But not all of these are stars.

only visible because the sup the



Astronauts can stay at the International Space Station while they are in space.

The moon

There's nothing in the night sky that's easier to spot than the moon. Astronauts have walked on the moon. Their footprints will stay there for millions of years because there is no wind or weather there.

Phases of the moon

Have you ever wondered why the moon seems to change shape? It's because the sun's light hits the moon at **different angles** as it moves around Earth. There are 8 main phases.



New moon



Full moon



Waxing crescent



Waning gibbous



First guarter



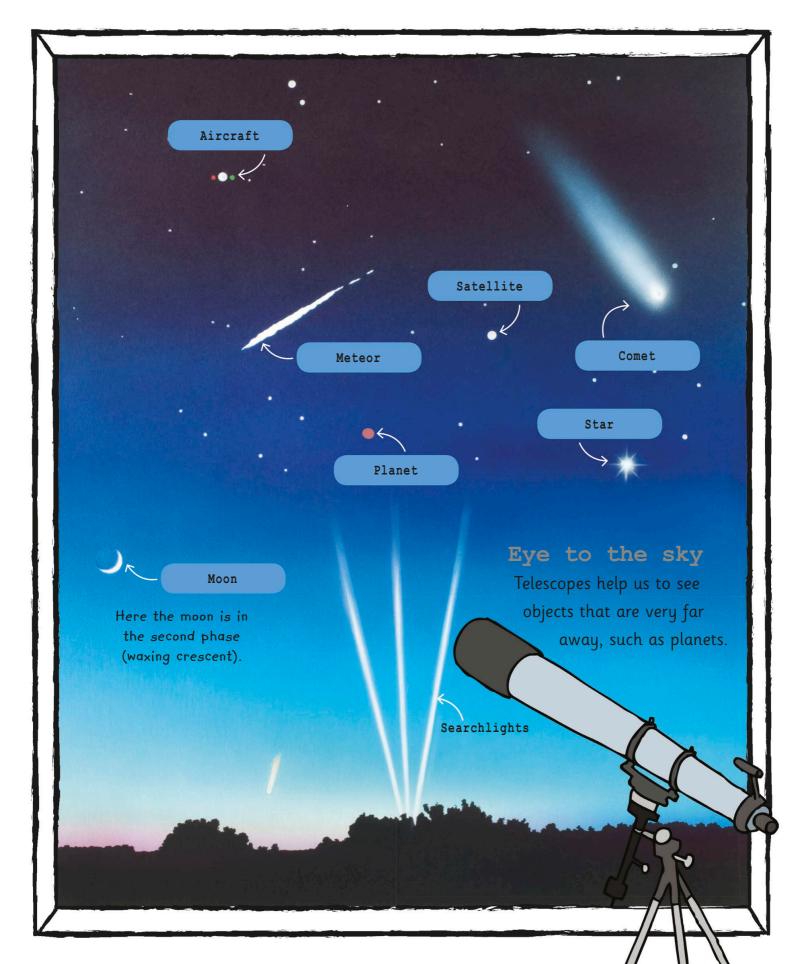
Last quarter



Waxing gibbous



Waning crescent



Inder the waves

From the surface to the sea floor, the oceans are packed with life. We separate the ocean into four zones.

Let's go diving and learn about each one.

other sea creatures are very colorful. Lots of fish and

> live near the surface because they need Look at the colors! Most sea creatures light and warmth from the sun.

Sunlit zone

Sea horse



Whale

grow here because there

Twilight

isn't enough sunlight.

zone

darker. Plants don't

Brrr! Deeper down

it gets colder and

for food, then swim all the way Giant sperm whales dive deep

up to the surface to breathe!







































