

Pluto and the Planets



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**This book
belongs to:**





Hello, (your name here)!



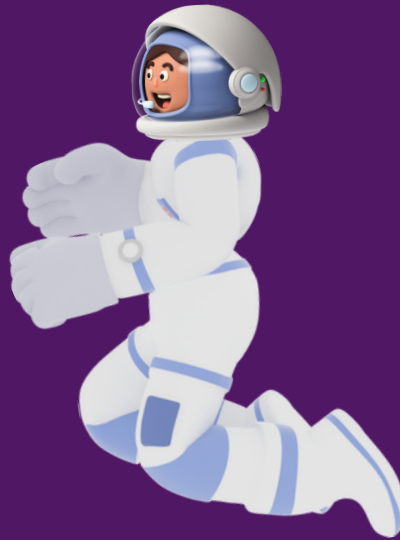
It's me, Pluto.

Today, I'm going to show you
all the planets.



Hello, Pluto!

Are you a planet?



That's quite a story.
Let's first visit the solar system,
shall we?



Meet Mercury,

the smallest planet.



To the sun, it's also the closest!



Mercury

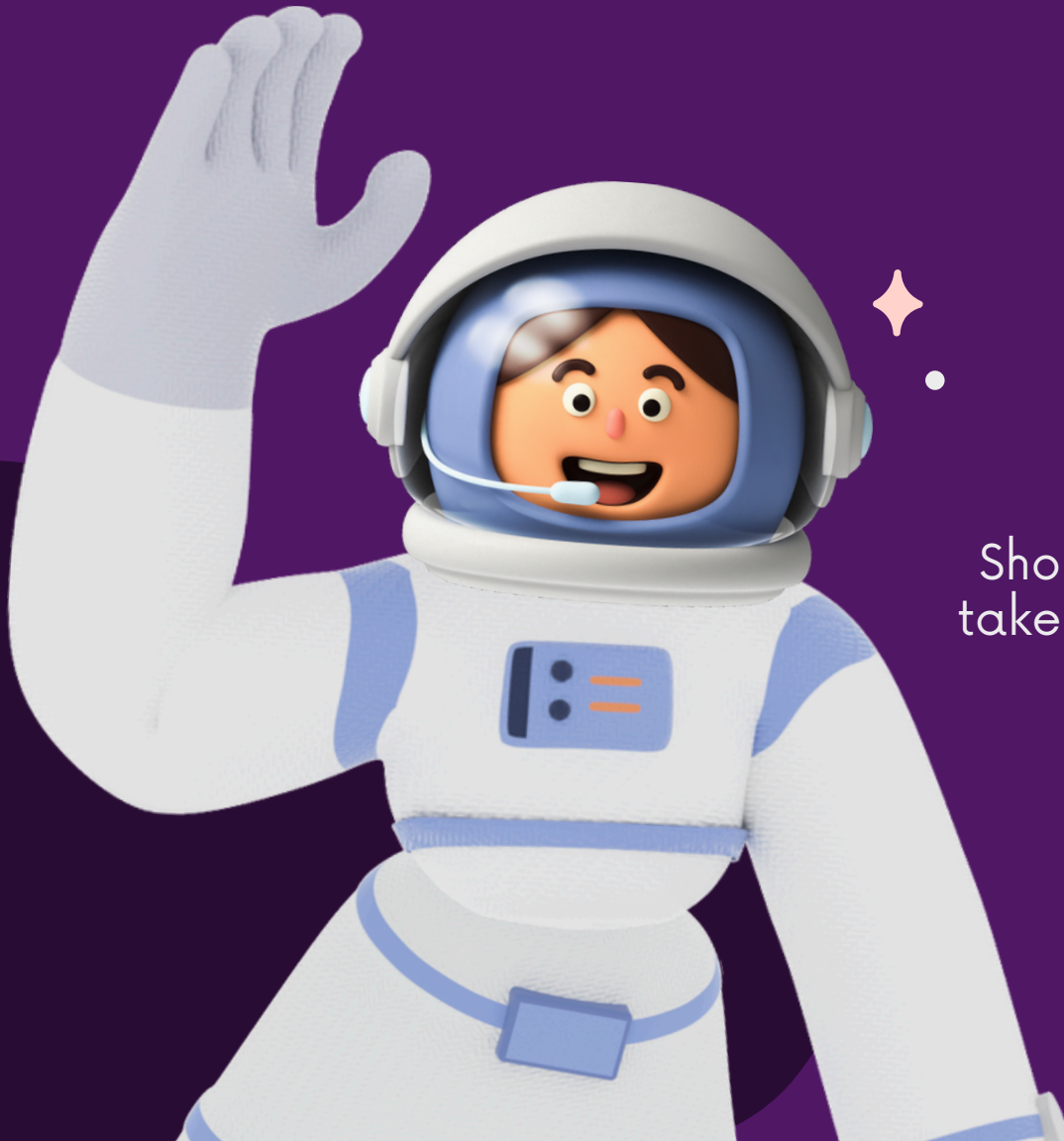
takes 88 Earth days
to have a year.



But its entire day takes Earth
176 days to clear.



I have a question
to raise.



Shouldn't years
take longer than
days?



Well, that's not always the case.

**Planets move in
two ways.**



First on its own axis like



a dancer on a pirouette.



around the sun on a path



called the orbit.



I turn slowly on my axis so
my days are longer.



In orbit I'm quick, so a year
takes shorter!



Next is Venus,

named for the Roman
goddess of love.



Of all the planets, it rises above.



While all other planets spin its axis
counterclockwise,

**Venus turns the
other way**

unlike the rest of the flock.



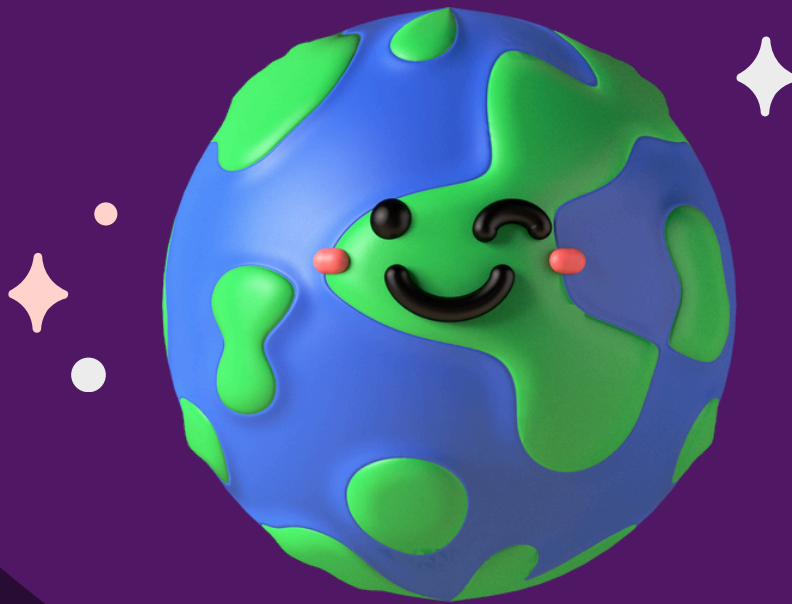
This makes the planet



upside-down.



Planet number three
is our very own.



It is Earth,
the one we call home.



**70% of its
surface is
water.**



Mars, the fourth planet,

also fondly called "Red".



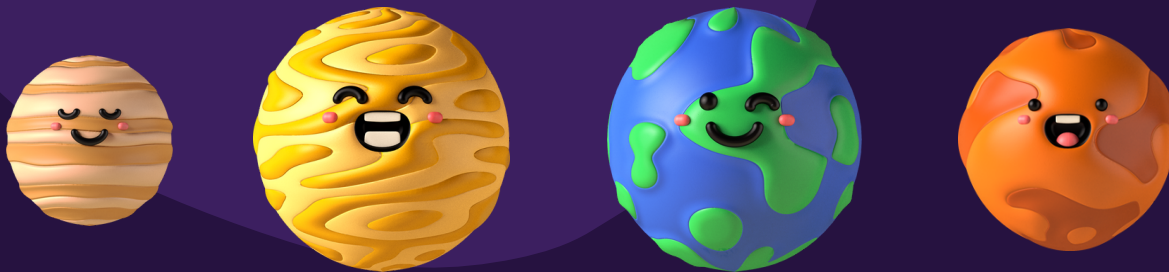
It has two moons,
Deimos and Phobos.





Mercury, Venus, Earth and Mars

are not just neighbours by the nearest star



but also compact balls of rocks and metals.
They are planets called rocky or terrestrial.



Where are we off
to next, Pluto?



To the bigger
planets, we go!



**The one with rings and
another with a big spot?**

That's correct, my little astronaut!

**Watch out for the
rocky objects floating!**



They're ancient debris when the
planets are forming.

**We're in the asteroid
belt you see!**





Meet Jupiter!

Hydrogen and helium make
up its atmosphere.



A day is just ten hours here
but my year is 11.8 in Earth years!

My neighbour and I to the naked eye
are both visible from Earth's sky.



I have 4 sets of rings that are wispy

For my pal Saturn,

guess how many!





I have 7 wider rings all bright and icy,
first seen by Galileo Galilei!

**Prettiest of all planets
– that's me!**

82 moons keep me company.

Nice to meet you both!

Hey, is it getting very cold?



Ah, yes because we're now near
the coldest planet out here!





My name is Uranus

and I'm blue-green, caused by
sunlight and methane.



Like my neighbors I have rings,
Dark ones and bright ones — a total of 13!



Uranus, are you okay?

Why are you moving sideways?



I move almost 90 degrees on my side. This is how I rotate and I'm alright.

We've come so far!

Are we approaching another star?



I'm afraid not,
my friend.
But hey, here's our

final planet.





Here is Neptune,

and it has 14 moons!



I'm a bit rocky and mostly blue and icy.
My six rings are very hard to see.

That's because I'm the farthest planet.

I'm away from the Sun by
30 astronomical units.



Say, Pluto, aren't you farther away —
39 astronomical units, they say?



