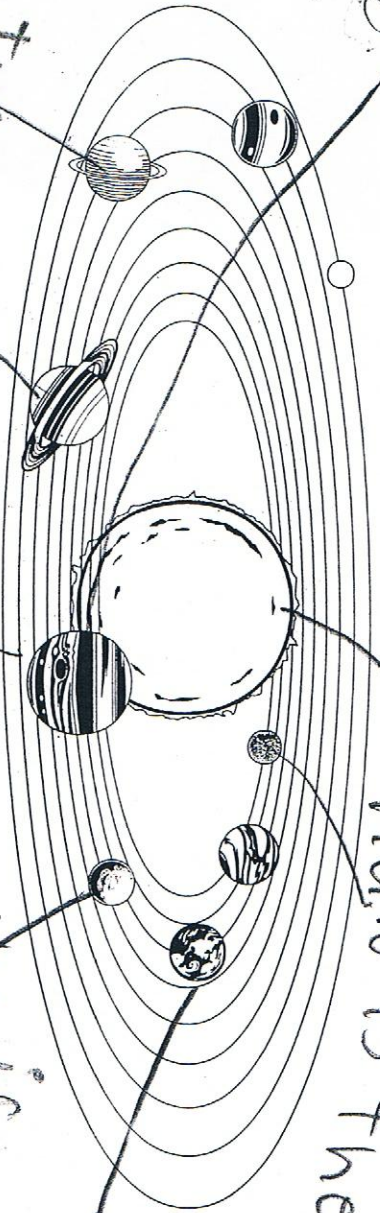


Jupiter takes 9.8 hours for rotation and 11.9 year
Jupiter revolution

Our Solar System



The Sun is the closest star to

Earth is the smallest planet

Earth is where we live

Mars is dead

Jupiter has 63 moons

Saturn's rings are made of ice

Uranus's rings are made of dust

Video -

The Magic School Bus Gets Lost in Space

Billions of planets with Earth-like mass in Milky Way: study

Agence France-Presse

PARIS — The Milky Way is home to far more planets than previously thought, boosting the odds that at least one of them may harbour life, according to a study released Wednesday.

Not long ago, astronomers counted the number of “exoplanets” detected outside our own solar system in the teens, then in the hundreds. Today, the tally stands at more than 700.

But the new study, published in *Nature*, provides evidence that there are more planets than stars in our own stellar neighbourhood.

“We used to think that Earth might be unique in our galaxy,” said Daniel Kubas, a professor at the Institute of Astrophysics in

Paris, and co-leader of the study.

“Now it seems that there are literally billions of planets with masses similar to Earth orbiting stars in the Milky Way.”

An international team of astronomers led by Kubas and colleague Arnaud Casan used a method called gravitational microlensing, which looks at how the combined gravitational fields of a host star and the planet itself act like a lens, magnifying the light of another star in the background.

The survey picked up on planets between 75 million and 1.5 billion kilometres from their stars — a range equivalent in the solar system to Venus at one end and Saturn at the other — with masses at least five times greater than Earth.

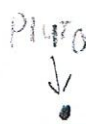
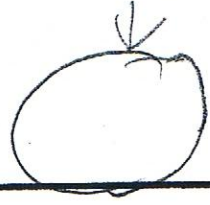


Name: Travis

What? - So What?

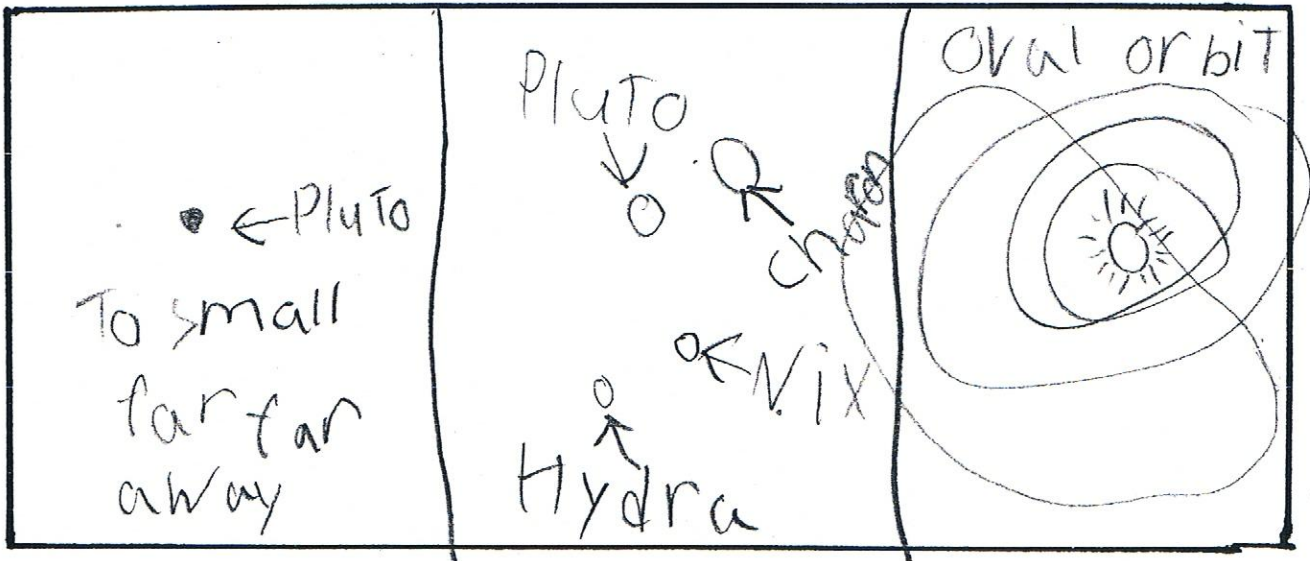
What? Facts from the text	So What? What are you thinking?
There might be another Earth	I wonder if there are any humans on other planets
There are more planets than stars	Do any star have planets around it
There are billions of planets the same size as Earth	How big is a galaxy?
	How many galaxies are there

Question: Is pluto a planet

Facts

1. It is too small  
2. It's an object in The Kuiper Belt
It is round 
3. It's orbit is a oval 
it is icy and rocky
4. It has 3 moons
5. Eries is bigger than Pluto

Draw and label a picture that shows at least three of your facts,



is pluto a planet

pluto was discovered by a farmer in ohio in 1930. I

think pluto should not be a planet because it is too far away from the sun

I also think it should not

be a planet because it

is the smallest in the solar system

And it is the only one that

has the least amount of moons

I think pluto should not

be a planet because it has a

different orbit than the other

Knew - New Connections

{Book Title} - Space Quest

I KNEW this already!

This is NEW to me!

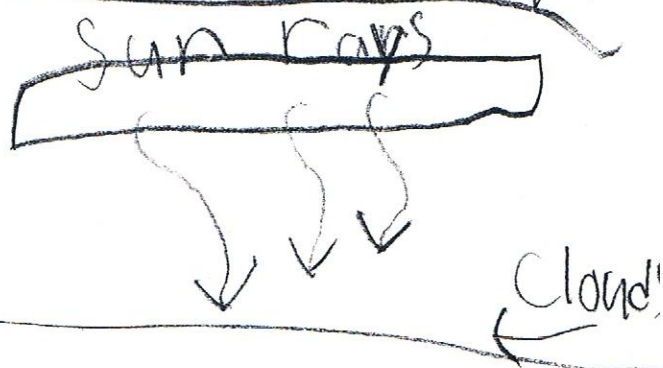
• Sun Center Solar System
The sun is a yellow star

• The planets in our solar system are often grouped into inner planets and outer planet.

The planets move around the sun in paths called orbits

It takes JUPITER 11.9 years to orbit the sun

The planets closest to the sun have the shortest orbit



Surface of Venus



Knew - New Connections

(Book Title) - Space Station

I KNEW this already!

● Astronauts have to wear space suits in space. Sometimes astronauts have to work outside on The Space Station

This is NEW to me!

● Skylab was in space for 270 days. The US put its first space station into orbit in May 1973

PAWesome

Why does Saturn have so many rings and how do they stay?

How did Saturn get its rings?

We think that a small moon got too close to Saturn and was torn apart by Saturn's gravity. It is also possible that an asteroid passing by Saturn hit into one of the moons.

How many rings are there in Saturn?

When we look at Saturn's rings from Earth, they appear to have various bands. They have been given names: A, B, C, D, E, F, and G (there are seven bands). But the rings are actually made up of zillions of bits of rock, some as big as boulders but most tiny like sand. They are all in orbit around Saturn, like a horde of tiny moons.

Why does Saturn have so many rings?

Saturn's rings are made up of zillions of rocks. A few are as big as cars but most are small as sand. They all circle Saturn like zillions of little moons. So they look like rings but actually they are lots of tiny moons!

Are Saturn's rings made up of huge chunks of rocks and ice or small chunks of ice?

Saturn's rings are made up mostly of ice with a little rocky stuff mixed in. The chunks are mostly small - from around an inch across to 15 feet with a few bigger "icebergs."

Okay, small is relative the chunks are much smaller than a moon but big enough that you wouldn't want to have one smack into your spaceship!

<http://www.scholastic.com/teachers/article/saturn>

Question: Does Jupiter have the biggest moon?

Fact	Reaction
Ganymede is the largest moon of Jupiter	I wonder why that is?
It has a magnetic field and it probably has a molten iron core	I did not know that interesting
It takes Ganymede 171.75 hours (7.15 Earth days) to orbit Jupiter	That is a very long time.
Ganymede was discovered by Galileo and Simon Stevin independently in 1610	Wow that is new to me. I COOL!!!
Ganymede is the biggest planet in our solar system	Wow that is big to me