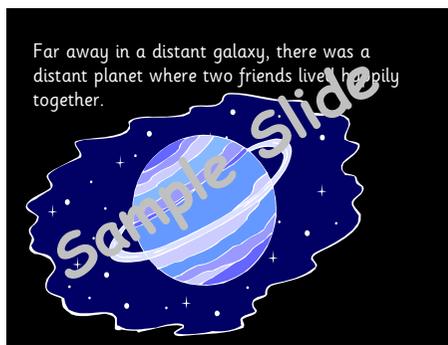


Lots of explaining to do .....

Far away in a distant galaxy, there was a distant planet where two friends lived happily together.

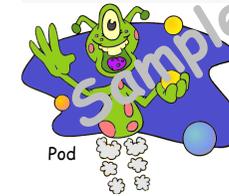


The two friends often set off in their spacecraft to visit the planet Earth.



Planet Earth was very interesting!

Here's Pod. He's an alien and he lives on the distant planet with his little robot friend - Dusty.



Pod

Dusty likes learning new things.



Dusty

Dusty often visits planet Earth with Pod and there is always something new to learn.



Pod

Dusty always needs a bit of help understanding the strange things he sees on Earth.



Dusty

Pod has been to Earth many times before and knows lots of things about the strange planet.



Pod

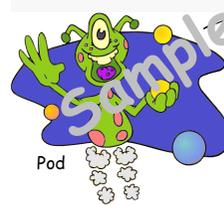
He likes explaining all these new and strange things to Dusty.



Dusty

Pod has been teaching Dusty about explanations and why we need them.

Why do we need explanations?



Pod



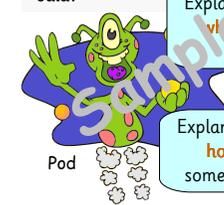
Dusty

Dusty was very excited because he knew the answer to Pod's question. Can you guess what he said?

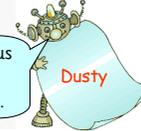
Explanations tell us how something happens.

Explanations tell us why something happens.

Explanations tell us how or why something works.



Pod



Dusty

Dusty decided that he liked explanations because they helped him to understand how things work. Understanding how things work or why things happen was very important for him.



explanations

Only yesterday Dusty had found out something very interesting about fish. There were no fish where he came from but there were lots of fish on planet Earth.



explanations

Dusty knew that some fish lived in the sea, some lived in ponds or streams and some were kept in people's houses as pets.



explanations

He knew that fish were living things so they had to breathe something called oxygen.

He knew that people needed to breathe air that had oxygen in it. He knew that people couldn't breathe underwater - unless they had a snorkel sticking up into the air or carried oxygen in big cylinders on their backs.



explanations

He'd never seen a fish with a snorkel or with an oxygen tank, so how did it get oxygen?



explanations

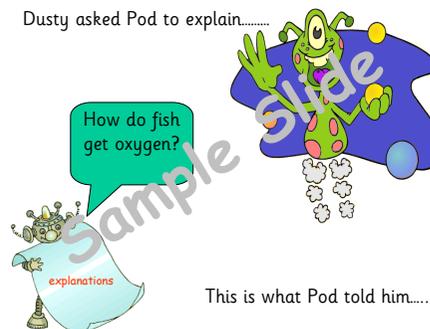
Dusty knew that Pod would be able to help him. Pod was very good at explaining things.



explanations

Dusty asked Pod to explain.....

How do fish get oxygen?



explanations

This is what Pod told him.....

All living things need oxygen. Fish get oxygen from water. Without oxygen, they would die.

People get oxygen from the air they breathe. They use their lungs to get the oxygen they need from the air.



lungs



Fish don't have lungs and they don't breathe air like people and animals, so how do fish get oxygen?

Water in streams and ponds has oxygen in it. People can't breathe it because they have lungs and lungs don't work in water. Lungs can't get oxygen from the water.

Fish don't have lungs but they can still get oxygen from the water.

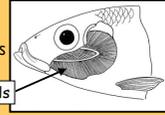
Instead of lungs, fish have **gills** that they use to get oxygen.



When a fish opens its mouth, water goes in. The water has **oxygen** in it. Water and oxygen go through the fish's **gills**.



This is what a fish's gills look like.



Gills strain the oxygen out of the water so that it can be used by the fish's body to make energy.



Then the water is forced out through the gills, back into the pond.



That's how fish get oxygen!



Dusty was impressed with Pod's explanation but, there was just one thing that Dusty still didn't understand.....

Why didn't **robots** need to breathe?



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