Annotated student work sample 2

Transcript

So, I love... This is very interesting. Can you explain the relationship between the sun, earth and moon here?

Mm-hm. So, the sun is the centre of the...of the atmosphere as far as we can see.

Mm-hm.

Um...and...the...So, earth is on an axel, which means that earth is sitting on its side.

And there's this imaginary line where the sun is on it.

Mm-hm.

So when the sun spins around we can tell, um... No. When we spin around we can tell if the sun is there, which means daytime or if the night is there.

Mm-hm. Well done.

And it takes a while for the planet to go all around on the axis, which means that we have...140 days? Something. Something 100 days.

and that is why, um, the sun...

Which one is the 140 days?

Um, the earth spins 140 days...

Doing...

Going around the sun and the moon.

Uh-huh.

And there's sort of like this imaginary string...

Mm-hm.

..and it is connected to the moon and it goes along with earth.

That pulls it along together?

Yeah.

Mm. OK. And so, you've told me that the earth goes around the sun.

Yep.

And you told me that earth has this axel that it spins as well.

Yeah.

And it's pulling the moon around the sun.

Yeah.

That's really interesting. OK. So, is night the same all over the earth?

Um, yes, night is the same all over the earth.

OK.

But it isn't the same for other planets. Some planets have three...some planets have three moons like Mars.

Uh-huh.

Some have zero, like Pluto.

Uh-huh.

Um, the sun has zero 'cause actually, no-one's sure about the sun.

OK.

And you've made these all a particular shape, so you know something about the shape of all the planets and the sun.

Because the sun is the biggest planet of all the planets.

OK.

Earth is... It seems pretty big but it's actually the second-smallest planet in the whole solar system as far as we can see.

Uh-huh.

And the moon... The moon is the third-smallest...No. The second-smallest planet in the whole solar system.

OK.

Or it would be the smallest because Pluto is actually not a planet.

Oh.

It's a gas ball.

OK. You know so much. That is so good. Um, so if you said the sun is actually way bigger and it's the biggest, then why does it look small to us?

Because we're a lot more further away than all of the other places in the whole entire atmosphere.

OK. And that's so why everything else is...Yeah. I think you've cleared up most things for me. Just one more thing.

You know you said the earth spins,

Mm-hm.

do you know anything about the time that it takes for it to spin?

Um, it probably takes 24... It's the like the time of the day, 24 hours...24 hours of the sun for us, and 24 hours for the moon for us.

Right. Thank you very much.

You're welcome.

Great information.