



WEEK 6: SPACE



Science in the News



A new planet forming in space 50 000 000 000 000 kilometers away!

Credit/reference: ESO/PA



★ Try it at home - Make a mini solar system!

What do you need?

- Card and paper
- Colouring pens or pencils
- Scissors (always ask an adult before you use scissors)
- A mug (optional)
- String or wire (optional)
- A hanger (optional)

Why am I learning this?

Learning about our Solar System, helps us to ask questions and develop an understanding of the vast world beyond our planet.

If you want to learn more about the science behind this, check out our lesson on our website - [Science Creates Outreach](#)



Parents:

For primary learners, work through our full 'space' lesson plan with your child. It is based around the national curriculum learning objectives found in the year 5 'Earth and space' topic. Download here - [Science Creates Outreach](#)

For secondary learners, the contents can be discussed in more depth using the [original online article](#). **

A NEW PLANET FORMS!

Scientists have taken the first ever image of a new planet being born. The image was taken using one of the worlds strongest telescopes - the Very Large Telescope (yes, that's its name!) in Chili. The telescope can detect images four billion times better than the human eye and has captured wonderful images. This new planet is 50 trillion (50 000 000 000 000) kilometers away from Earth!

This is the first time scientists have been able to observe a new planet forming, and it will allow them to get more detailed information of what actually happens.

Planets are formed when dust and rocks clump together in space over time. Scientists believe that this picture shows the exact point at which the planet is forming, at the meeting of the two spirals in the centre of the image - in bright yellow.

Instructions:

1. First, draw a circle about the size of a tennis ball, on a piece of card. If you have a mug, you can draw around it. This will be the Sun so colour it orange, red and yellow.

2. Next, draw 2 circle about the size of a ping pong ball, on the card. Add an oval ring to one of them as this will be Saturn. The other is Jupiter. Using images of Saturn and Jupiter (see the lesson plan for images), colour these too.

3. Then, draw 4 circles about the size of a marble. These are Mercury, Mars, Venus and Earth so colour these appropriately too.

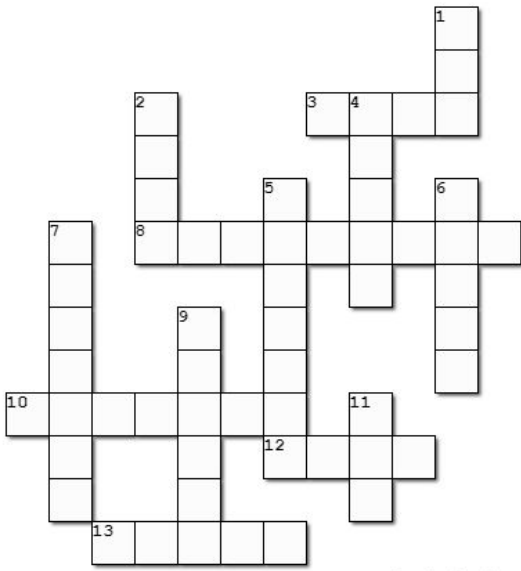
4. After that, draw 2 circles (and this is a bit trickier) that are bigger than a marble but smaller than a ping pong ball! These are Neptune and Uranus. You'll need your blue colours for those.

5. Finally, cut all these circles out and either stick them to a piece of paper (in the correct order of course!) or, if you have string and a hanger, make a small hole in each planet, thread string through and tie along the hanger (again in the correct order!).





WEEK 6: SPACE



Across:

- 3. The celestial body that orbits the Earth
- 8. The rough shape of all the planets in the solar system
- 10. The planet with over 60 moons
- 12. The time it takes the Earth to orbit the Sun
- 13. The planet in between Earth and Mercury

Down

- 1. The giant star at the center of the solar system
- 2. The planet after Earth that scientists suspect may have hosted life one day
- 4. The process of travelling around a star or planet
- 5. The closest planet to the sun
- 6. The only planet in our solar system with plenty of water
- 7. The furthest away planet from the sun
- 9. The planet that is known for having rings around it
- 11. The time it takes Earth to spin on its axis

Answers: 1. Sun, 2. Mars, 3. Moon, 4. Orbit, 5. Mercury, 6. Earth, 7. Neptune, 8. Spherical, 9. Saturn, 10. Jupiter, 11. Day, 12. Year, 13. Venus



Competition Time

For this week's competition we would like you to make a junk model rocket! Ask an adult if you can use some of the recycling in your house. Any cardboard, cans, plastic containers or pots would work perfectly. You could colour them, cover them in paper, add stickers to them or cut holes in them to show different details. Of course, always be careful with scissors or if there are sharp edges on your recycling.

Finally, send your photo to outreach@sciencecreates.co.uk

Your competition entry should:

- include in the email your first name and age e.g. Patrick, 12 years old.

The deadline for this issues competition is Thursday 4th June 2020.

COMPETITION NOW CLOSED!

Read, Watch, Ask



Have a read of our [lesson](#) to learn more about space.



What is the solar system? Watch [here](#) to find out.*



Got any questions about today's topic? Email us at info@sciencecreates-outreach.co.uk and we'll answer them!



Did you know...

... that sound can't travel in space? Because there is no atmosphere, the sound has no way to travel, and so space is completely silent! Spooky!

Last week's winner!

What amazing animals you drew on your new planets from last week's competition. Thank you to all of you that entered.

Congratulations to our winner, Robyn, age 7. What a unique animal! We think Earth Creature looks like a friendly animal.

