

## Year 4 Weekly Homework – Week 12

### Topic – Space

If you are not currently connected to Class Dojo and would like your connection details, please send an email to [admin@simonside.newcastle.sch.uk](mailto:admin@simonside.newcastle.sch.uk) and we will get you connected.

#### Challenge 1 (Science)

- Think about what you already know about Space and create a mind map. Can you name the planets in our Solar System? Can you remember the order and create your own mnemonic to help you?
- Research the characteristics of the planets e.g. What is it made of? What size is it? How close to the Sun is it? Temperature?

Create a fact file or PowerPoint on a planet of your choice. [These facts about Mars](#) or [these facts about space](#) may be a good starting point.



#### Challenge 2 (Art)

**Design a new spacesuit suitable for an astronaut.** You will need to consider which materials would be most suitable and comfortable for the astronauts and the temperature in space.

**Design a logo for the spacesuit too.** Perhaps you could even make the logo using materials from around your home.



#### Challenge 3 (PE)

Astronauts have to be fit and agile for their missions to space. **Design an obstacle course in your garden or home space and put your agility to the test!** Can you find your pulse and count your heart rate before and after exercising?



#### Challenge 4 (English)

If Space travel was more accessible and you could go on holiday to space, would you like to be one of the first space tourists?

Can you think of arguments for and against space tourism? For example, one 'against' might be that you may think it is unethical for billionaires to spend their money on space tourism when they could spend their money on helping to reduce poverty?

Prepare a speech about this discussion point.



#### Challenge 5 (History)

##### Neil Armstrong biography

Neil Armstrong was a pilot, astronaut and engineer who was the first person to walk on the moon.

##### Early life

Neil Armstrong was born in Ohio, USA on the 5<sup>th</sup> August 1930. As a child, he loved aeroplanes and took his first flight aged six. He began learning to fly an aeroplane at 15 and had earned his pilot's license by 16 - learning to fly a plane before he knew how to drive a car!

##### Career

Neil Armstrong became a pilot for the U.S. Navy and flew jets during the Korean War. During one mission his plane was hit and he had to eject, escaping with his parachute, before being rescued.

After the war, Neil Armstrong worked as a test pilot, flying more than 200 different aircraft, including jets, helicopters, gliders and even rockets. It was dangerous but exciting work!



Apollo 11 left Earth on 16<sup>th</sup> July 1969, with a crew of three - Neil Armstrong, Buzz Aldrin and Michael Collins. Four days later it landed on the Moon. It was a tricky landing and the rocket nearly ran out of fuel but Neil Armstrong managed to land safely. He was the first person to leave the rocket and as he stepped onto the surface of the Moon he said, "One small step for man, one giant leap for mankind".



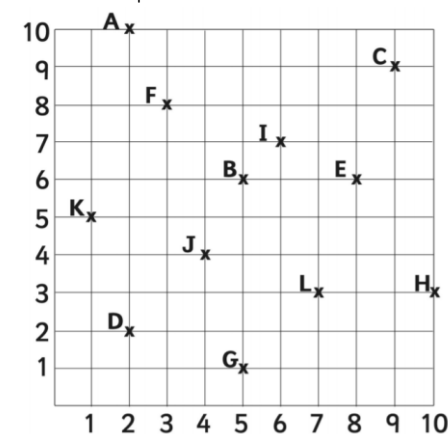
Find out about Neil Armstrong.

Who was he and what challenges did he have to overcome during his life?

Can you write a biography about Neil Armstrong's life and achievements?

#### Challenge 6 (Maths)

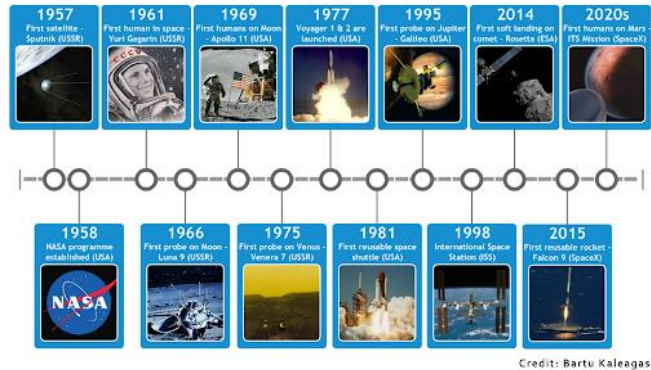
Look at the quadrant below. Write down the co-ordinates of the letters. Remember, you go along the corridor then up the stairs!



### Challenge 7 (History)

Research space exploration history and create a timeline of how people have travelled into space. Think about when the first rocket was launched? When did the first man travel to space? How about the first woman? What other significant events can you add to your timeline?

Space Exploration - Timeline Overview



Credit: Bartu Kaleagasi

### Challenge 8 (English)

Have a go at creating some origami stars. You can then add them to a 'space' piece of artwork or hang them in your home so you have your own galaxy!

Follow these instructions to make them.

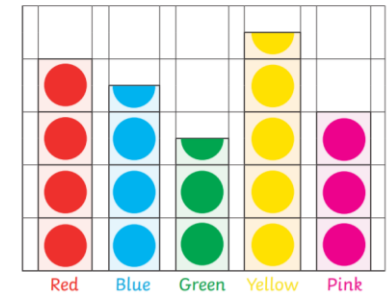
<https://www.youtube.com/watch?v=DngvJCblRj0>



### Challenge 9 (Maths)



Favourite Colour



Look at the pictogram above and answer the questions.

1. What is the least favourite colour?
2. How many children chose yellow as their favourite colour?
3. How many fewer children chose green than blue as their favourite colour?
4. How many children chose pink and red as their favourite colour?

Remember:

- Weekly spellings are also posted on the school website.
- Keep practising your times tables using Times Table Rockstars.
- Find a book you enjoy reading on Bug Club or at home. Can you read a paragraph out loud with expression to your grown up?