P4 Space

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| **Research** | **Observe** | **Investigate** | **Experiment** | **Present** |
| Use TigTag or Nasa Kid’s Club to find out more about the Sun, Moon, Earth and other planets  [www.tigtagworld.co.uk](http://www.tigtagworld.co.uk)  [www.nasa.gov/kidsclub/index.html](http://www.nasa.gov/kidsclub/index.html) | Look at the night sky every day for a month – draw how the moon changes. Can you tell what phase it is in? | Measure your shadow every hour between 9am and 3pm and make a graph of your results. How does it change during the day? | Use recycling materials from home to build your own rocket. What shapes do you think make the best rockets? | Draw a diagram of the different phases of the moon – or make one by taking bites out of Jaffa cakes! |
| Revise and find out more about the phases of the moon:  <https://www.natgeokids.com/uk/discover/science/space/the-phases-of-the-moon/>  <https://www.tigtagworld.co.uk/film/phases-of-the-moon-PRM00071/> | Compare a large beach ball or other round object and a single pepper corn – this helps you understand how much bigger the Sun is than the Earth. Can you think of anything to represent the Moon? | Crater investigation: use different sized marbles or balls and a tray with flour. Predict which ball will make the biggest crater in the flour when dropped? Test and record your results. How will you make it a fair test? What happens if you change the height it is dropped from? | Use different materials to make your own lunar landscape:  Use the resource Asteroids and Lunar Landscape at unawe.org to help you. | Use different sized objects (fruit works well) to represent the Sun, Moon and Earth and explain to someone at home how they travel. |
| How many times bigger is the Sun than the Earth?  How many times bigger is the Earth than the Moon?  What is the distance between the Sun and the Earth?  What is the distance between the Earth and the Moon?  How long does it take the Earth to spin on its own axis?  How long does it take the Earth to orbit the Sun?  How long does it take the Moon to orbit the Earth?  When did the Moon landing take place?  Who was the first man on the Moon?  If I dropped a feather and a hammer at the same time on the moon, which would hit the ground first? |  |  | Got what it takes to be an astronaut? Test and improve your fitness with an astronaut training programme  <https://www.stem.org.uk/rxyqo> | Create a mind-map or poster displaying all the information you know about the solar system. |