

Digital resources to support learning about:

Space

2 Learner Guides and 18 video clips on different aspects of space

www.bbc.co.uk/bitesize/topics/zkvv4wx

Clear introduction to topic including a quiz

www.dkfindout.com/uk/space/solar-system/

Fun concise facts about Solar System and space using cartoons and videos

www.esa.int/kids/en/Multimedia/Paxi_animations/English/The_Solar_System



Space Travel

NASA resources about astronomy and spaceflight. Includes videos, games to play and interesting activities.

www.nasa.gov/kidsclub/index.html

Picture book 'Look Up' by Nathan Bryon read to you by the author followed by a draw along session with the illustrator Dapo Adeola

<https://www.youtube.com/watch?v=oSkihS5mm-c>

Fun hands on activities and facts about space travel and space

<https://www.stem.org.uk/home-learning/family-activities#4-11>



Craft Activities to try at home

Creative arts and crafts activities themed around space including cooking

<https://spaceplace.nasa.gov/menu/do/>

Printable posters, games, and colouring sheets

<https://www.earlylearninghq.org.uk/themes/space-the-planets/>



Science Experiment to try at home

How does a Space Rocket take off?

You will need: Squeezy water bottle (sports bottle) or you can use a washed out empty squeezy sauce bottle, 2 straws (one slightly larger than the other), sticky tape, blu tack (or plasticine), cardboard and pens

- Cut your 2 straws in half
- Take a squeezy water bottle, lift up the sports cap and push in the half of the smaller straw
- Seal around it with blu tack (plasticine). Squeeze the bottle and make sure air is coming out of the top of the straw, not the sides.
- Draw and cut out a cardboard rocket.
- Seal one end of the larger straw with sticky tape.
- Attach the rocket onto one side of the larger straw with the open end of the straw at the bottom of the rocket
- Slide the larger straw and rocket on to the straw attached to the top of the bottle.
- Squeeze the bottle hard, the rocket should fly into the air.



Science Explanation of what happened

When you squeeze the bottle the space inside the bottle gets smaller so some of the air is forced through the straw in the top. The air then pushes against the stoppered end of the straw attached to your rocket pushing it up into the air. What would happen if you make your rocket bigger/heavier, does it fly as far? How far does the rocket fly if you use a smaller or larger bottle?