

Summer Ideas

Water Bottle Rocket

Build your own rocket. How can you make it fly further? How is this linked to air resistance? What are the forces acting on the rocket?



<http://www.bbc.co.uk/bang/handson/waterbottlerockets.shtml>
<https://www.science-sparks.com/making-a-bottle-rocket/>

Space

Shooting Stars - Perseid Meteor Shower

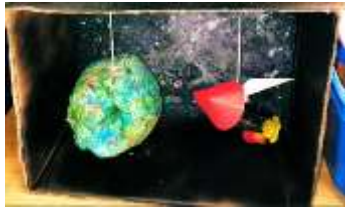
This year, the Perseid Meteor Shower will peak on the night of **12-13 August**. Meteors can also be seen on the days before.

Find somewhere dark to watch the sky. Allow your eyes to become used to the dark. Best from midnight-5:00am.

<https://www.rmg.co.uk/discover/explore/space-stargazing/meteors-comets-asteroids/Perseid-meteor-shower>

Space Diorama

Create a space scene in a box. Paint the inside of the box black and add the stars.



You can add planets, moons, rockets, aliens.

Reading Ideas

There are lots of books about Space and adventures in space. Simon Bartram writes lots of books. You can visit his website here:

<http://www.simonbartram.com/>

Read extracts of some of his books. Can you write the next part of the stories?

Log in to Love Reading for Kids and then copy the link.



KS1: Man on the Moon

<https://www.lovereading4kids.co.uk/extract/5779/Man-on-the-Moon-by-Simon-Bartram.html>

KS1: Bob and the Moontree Mystery

<https://www.lovereading4kids.co.uk/extract/8122/Bob-and-the-Moon-Tree-Mystery-by-Simon-Bartram.html>

KS2: The Disappearing Moon

<https://www.lovereading4kids.co.uk/extract/4457/Bob->

Planet Fact File

Find out about the different planets and create some fact files. How big are they? How many moons do they have?



<https://www.bbc.co.uk/programmes/articles/2195Yp5ZLs1BQrrCjYPYh1T/planets-fact-files>

Create a model to show the distances between the planets:

<https://www.rmg.co.uk/sites/default/files/import/media/pdf/KS1%20%26%20KS2%20Fruit%20Solar%20System.pdf>

International Space Station

On some cloudless nights, it is possible to see the International Space Station. Put in your location and find out when and how.

<https://spotthestation.nasa.gov/home.cfm>



Puzzles

ISS – Emoji maths





<https://www.nasa.gov/audience/foreducators/iss-emoji-math-puzzle.html>

nrich – Zios and Zepts <https://nrich.maths.org/1005>

Junk Modelling

Recycle junk to create a spaceship or alien.



<p>nrich – Alien Counting https://nrich.maths.org/5722</p>	<p>and-Barrys-Lunar-Adventures-The-Disappearing-Moon-by-Simon-Bartram.html</p>	<p>Links</p> <p>STEM Space Education Pack https://www.stem.org.uk/resources/elibrary/resource/35495/our-solar-system-suitable-home-teaching</p>
<p>Space Art</p>  <p>Create your own space picture. What will you use?</p> <p>Water colours paint can be blended to create different effects. Try black paint over a wax crayon drawing. Use a straw to blow blobs of paint to create shooting stars.</p>	<p>Lego In Space</p> <p>Build your own Lego model of a rocket, a space rover, or a moon base.</p> <p>Don't fogert to check out the LANCS Library Lego Club.</p> 	<p>BBC Website</p> <p>KS1 Season / day & Night https://www.bbc.co.uk/bitesize/articles/zk9mxyyc</p> <p>KS2 Solar System https://www.bbc.co.uk/bitesize/articles/zk7fy9q</p> <p>Cbeebies - Stargazing https://www.bbc.co.uk/cbeebies/shows/stargazing</p>
<p>Mars Rover Challenge</p> <p>Create a vehicle for a mission to mars.</p> <p>There might be sand and rocks on the surface. So how will adapt your vehicle?</p> <p>Can you use an elastic band (or a motor if you have one) to power the rover?</p>		<p>Create a Planet</p> <p>Create your own model planet using paper mache and a balloon. What will it look like? What colours will it be?</p>  <p>https://www.instructables.com/id/Papier-Mache-Planets/</p> <p>Write a fact file to describe your planet. Is there any life there? If so what?</p>

<p style="text-align: center;">Space Rhyme/Poetry Challenge</p>		
<p style="text-align: center;">Can you learn off by heart?</p>		
<p style="text-align: center;">Early Readers (approx. YR-Y1)</p>	<p style="text-align: center;">Developing Readers (approx. Y2-Y3/4)</p>	<p style="text-align: center;">Fluent Readers (approx. Y4-6)</p>
<p>Star Light (trad)</p> <p>Star light, star bright, First star I see tonight;</p>	<p>Twinkle Twinkle Little Bat Mad Hatter in Alice's Adventures In Wonderland by Lewis Caroll (Chapter 7)</p>	<p>The Moon Robert Louis Stevenson (1885)</p>

I wish I may, I wish I might,
Have the wish I wish tonight.

Twinkle Twinkle Little Star

Twinkle, twinkle, little star,
How I wonder what you are!
Up above the world so high,
Like a diamond in the sky.
Twinkle, twinkle, little star,
How I wonder what you are!

Sing and sign along with Mr Tumble & cbeebies:
https://www.youtube.com/watch?v=wah6_bc9bk

Twinkle, twinkle, little bat!
How I wonder what you're at!
Up above the world you fly,
Like a tea tray in the sky.
Twinkle, twinkle, little bat!
How I wonder what you're at!

Twinkle Twinkle Little Star

by Jane Taylor first published 1806

Twinkle, twinkle, little star,
How I wonder what you are!
Up above the world so high,
Like a diamond in the sky.

When the blazing sun is gone,
When he nothing shines upon,
Then you show your little light,
Twinkle, twinkle, all the night.

Then the trav'ler in the dark
Thanks you for your tiny spark,
How could he see where to go,
If you did not twinkle so?

In the dark blue sky you keep,
Often through my curtains peep
For you never shut your eye,
Till the sun is in the sky.

As your bright and tiny spark
Lights the trav'ler in the dark,
Though I know not what you are,
Twinkle, twinkle, little star.

The moon has a face like the clock in the hall;
She shines on thieves on the garden wall,
On streets and fields and harbour quays,
And birdies asleep in the forks of the trees.

The squalling cat and the squeaking mouse,
The howling dog by the door of the house,
The bat that lies in bed at noon,
All love to be out by the light of the moon.

But all of the things that belong to the day
Cuddle to sleep to be out of her way;
And flowers and children close their eyes
Till up in the morning the sun shall arise.

Cosmic Dance by Grace Nichols

Listen to Grace Nichols read her poem Cosmic Disco:
<https://childrens.poetryarchive.org/poem/cosmic-disco/>
<https://www.bbc.co.uk/teach/school-radio/english-ks2-grace-nichols-talking-poetry/zf3y2sg>

Can you learn Cosmic Disco?