Educators and Instruction

ESERO-UK CPD Summarise this email

Cathy Collings Reply Reply all

To: Jo Davenport; Rachel Foster-Burnell; Sarah Lucas; Nicola Baldwin; +2 others

Cc: Samantha Warrington; Steve Gillan; Tracey Burke; Hannah Kelloway

I hope you all enjoyed Jo's session yesterday on the ESERO-UK project and the ideas of ho
STEM.
I've put the links that she mentioned below -
The Stem learning site where you can create a free account to search for the resources
The linked ESERO-UK site
Jo's Space Detectives site - you can see the workshops she offers herself for schools

Do have a look and see where you can use these resources to support your Science lessons. I'll look at the Quality Mark and we can think about booking the materials box and how to use the Stem Ambassadors resource - maybe for some Computing or D&T?

Thanks
Cathy

STEM Learning

STEM Learning

All teaching staff attended CPD sessions run by the local Space Ambassador on ESERO resources and introducing the Quality Mark. 2x twilight sessions July 2025

Teaching primary science: exploring space



Course completion status

Status: Complete

All criteria below are required:

Required criteria	Status
Activity completion	36 of 36

More details

Space Education Lead Teacher completed ESERO CPD: Exploring Space

There were lots of ideas that were already linked to things we were doing. The resources looked great and it was easy to see how they would fit into our curriculum. (Teacher)

Using rockets and space travel as a context for the materials unit of learning in science made the learning real for the children. (Teacher)

The online CPD gave me lots of ideas of how to use Space as a context for learning. I saved lots of ideas to pass on to collegues. (Teacher)

Tools View Curriculum planning activity grid - Human Spaceflight • Saved

NE003 Teaching primary science: exploring space

Curriculum planning activity grid

Resource/Activity	Which area of the curriculum does this support?	Is it aimed at a year group? How could it be adapted for use with other year groups?	Opportunities for working scientifically	Cross-Curricular opportunities
Bone density experiment using spaghetti to model reducing bone density of astronauts in space. Add mass to the bunch of spaghetti strands	Bones and muscles	3	Scientific enquiry – vary the mass and count the number of spaghetti strands	
Videos comparing tasks on board the ISS to normal life. Describe differences.	Space/forces/gravity Used to address misconception that there is no gravity in space	5		
Mission X resources and challenge pack	PE, Science, PSHE	All	Scientific enquiry opportunities	PE challenges
Look to the future resource pack. Astronaut training Astronaut exercise in space Communicating the building of a lego model or a drawing. Use a describer, messenger and builder that must communicate between them.	PSHE Team work Communication Problem solving	KS2 6 – healthy heart, circulation	Observation skills	
Is there anyone out there pack. Investigating life on Mars	Science Rocks and Soils Habitats	KS2 Science Club	Investigating soil samples	Geography Environmental issues
in space and design of a meal	healthy eating PSHE	3 Healthy eating design of a meal	Design to meet a criteria	D and T

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		Compare with design for own packed lunch		
Materials – investigating. I Resources wearable materials for a spacesuit Picture of different types of spacesuit. Principia Space diary – video about spacesuit qualities	Science – materials History -	2, 3,	Testing materials for qualities suitable for a space suit. Heat insulator	D and T
Protecting astronauts from the effects of UV light. Mission Starlight resource	Mission starlight I Resource I RSC Education Light Materials	3	Testing materials for uv protection	
Testing materials to decide which is the best insulator for an astronauts glove	Materials	2	Scientific enquiry materials as heat insulators	
Earth observation Satellite Earth from space videos on ESA website ESA - Search Google maps for latitude and longitude map knowledge	Science -Space/seasons Geography/ land use/locations/ Environment Biomes	5 KS1 seasonal change All year groups	Investigating materials that would be good for a satellite – The Space Case lesson. Observation of views of Earth from Space. Pattern spotting	Geography D and T

Grid of curriculum ideas as an outcome of ESERO CPD. Shared with teachers and fed into the school curriculum plan

Thankfulness, Hope, Friendship, Wisdom, Trust

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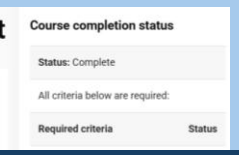
NE002A25 Teaching primary science: human space flight

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The Great British Space Dinner Resources around healt... in space and design of...	Science healthy eating	3	Design to meet a criteria	D and T

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Earth observation Satellite Earth from space videos on ESA website ESA - Search Google maps for latitude and longitude map knowledge Matching satellite pictures and photographs of places in Earth	Science -Space/seasons Geography/ land use/locations/ Environment	5 KS1 seasonal change All year groups	Investigating materials that would be good for a satellite – The Space Case lesson.	Geography D and T

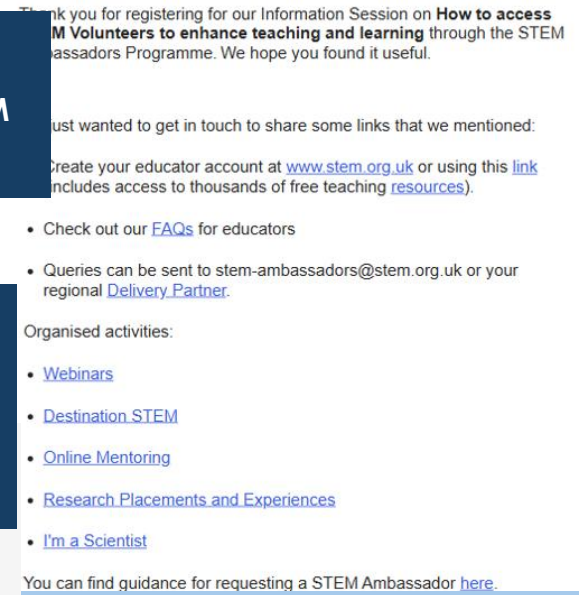




Space Education Lead Teacher completed ESERO CPD: Human Spacefight

Grid of curriculum ideas as an outcome of ESERO CPD: Human Spaceflight. Shared with teachers and fed into the school curriculum plan

Lead Teacher attended webinar: How to access STEM volunteers



...k you for registering for our Information Session on **How to access ...M Volunteers to enhance teaching and learning** through the STEM ...assadors Programme. We hope you found it useful.

...ust wanted to get in touch to share some links that we mentioned:

...Create your educator account at www.stem.org.uk or using this link ...ncludes access to thousands of free teaching resources).

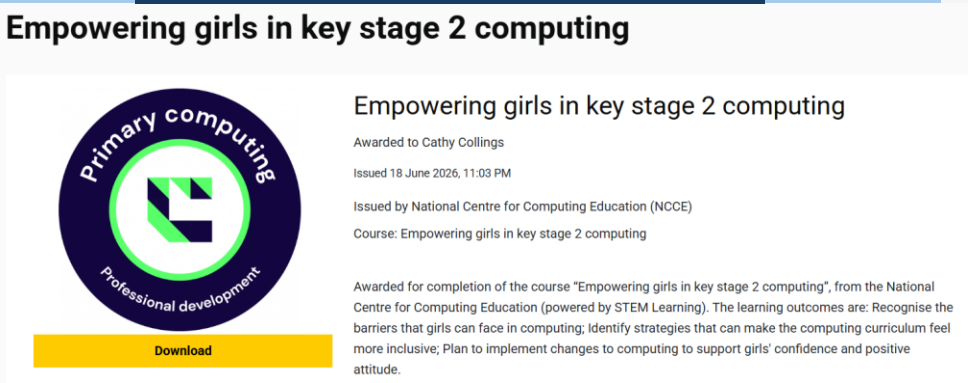
- Check out our FAQs for educators
- Queries can be sent to stem-ambassadors@stem.org.uk or your regional Delivery Partner.

Organised activities:

- Webinars
- Destination STEM
- Online Mentoring
- Research Placements and Experiences
- I'm a Scientist

You can find guidance for requesting a STEM Ambassador here.

Lead Teacher completed online Teach Computing CPD: Empowering girls in KS2 computing



Lead Teacher completed online ESA CPD Exoplanets. Attended webinar 'Teach with exoplanets'



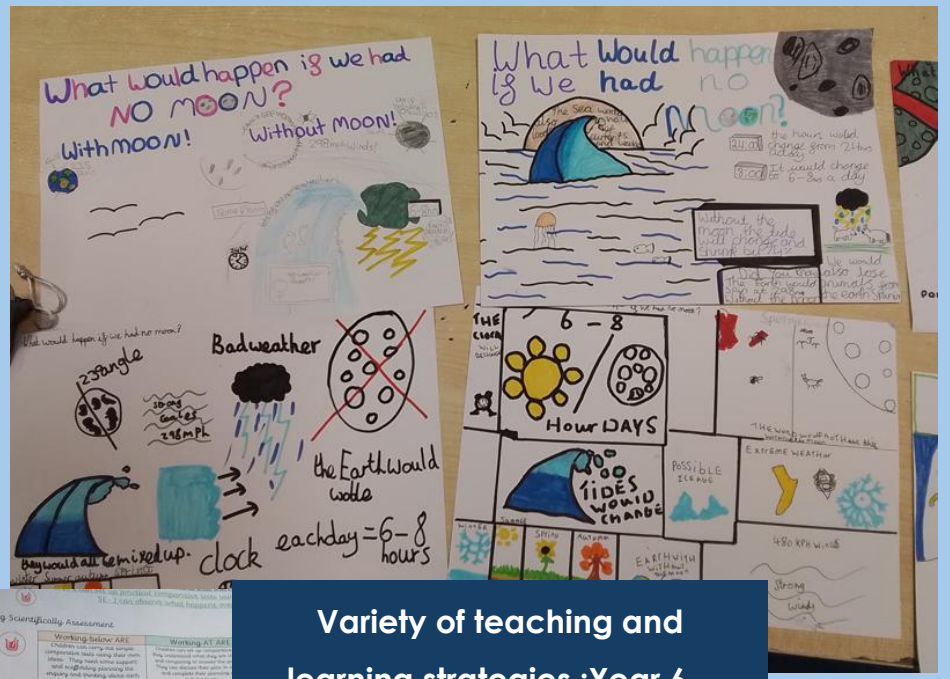
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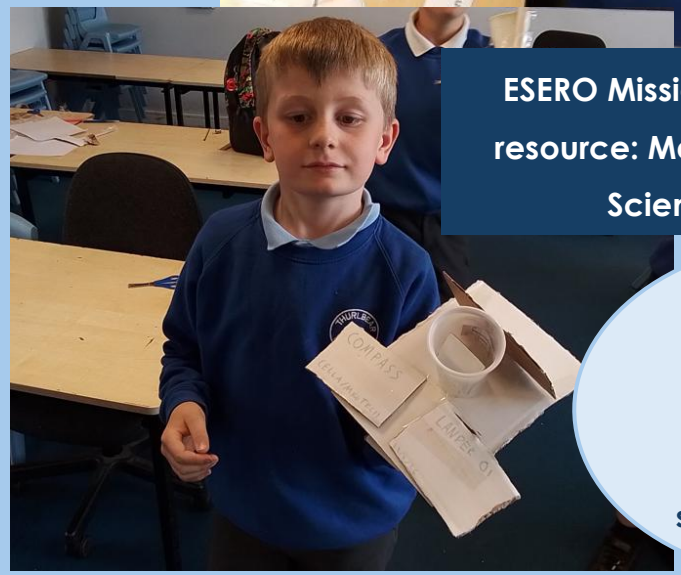
Year 5 – Astronaut training. What skills are important for working in Space?



ESERO resources and other resources used across the school for learning activities during a whole school astronomy day

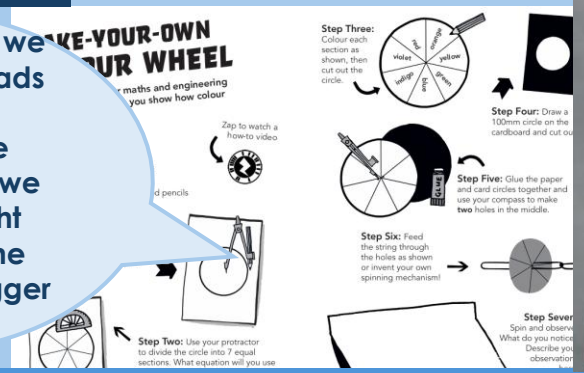


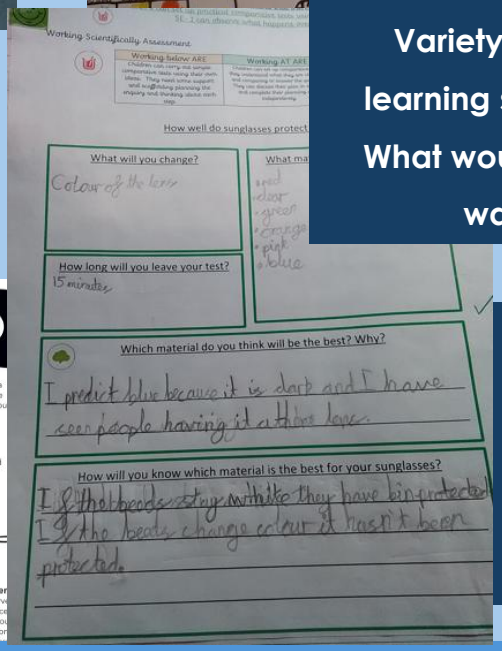
Variety of teaching and learning strategies :Year 6 – What would happen if there was no moon?



ESERO Mission to the Moon resource: Making landers in Science club

I enjoyed when we used the UV beads and then we measured the shadows when we moved the light further away the shadows got bigger Yr 3 pupil





ESERO resources: Using UV beads to investigate the sun and choose the best colour for sunglasses. Making colour wheels Year 3

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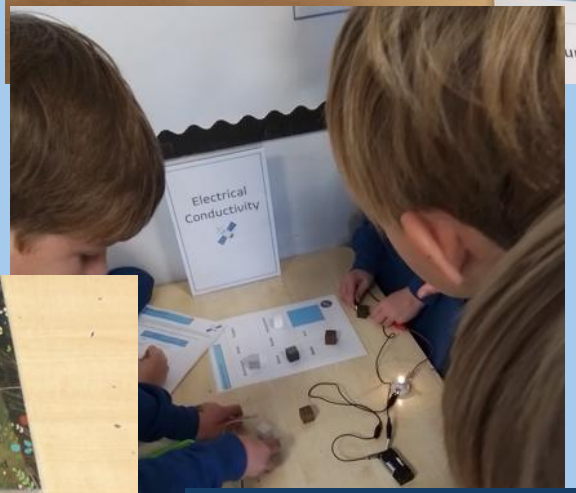




Space Case session – delivered in school by visiting local Space Ambassador

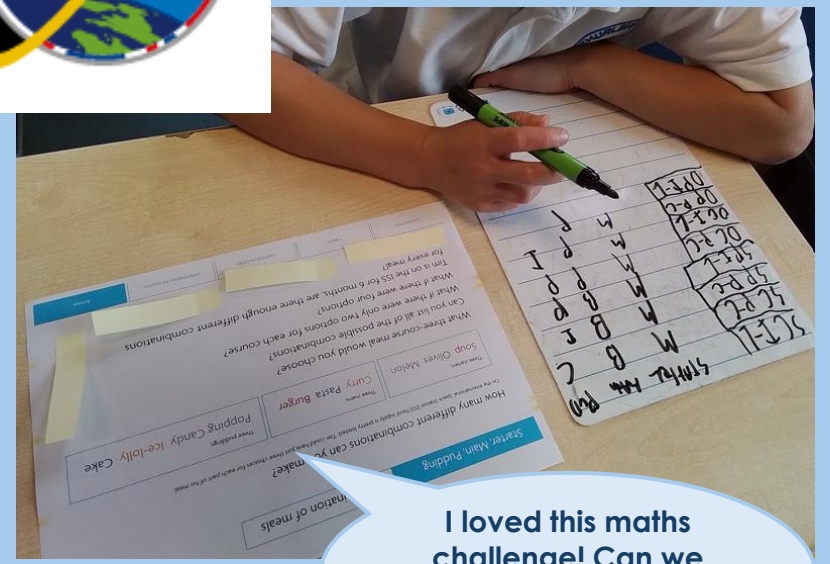
Resources specifically for Space Science: Space texts purchased as part of our school 'staff room reading for pleasure' project. Staff read books and then they are distributed to be used across the school





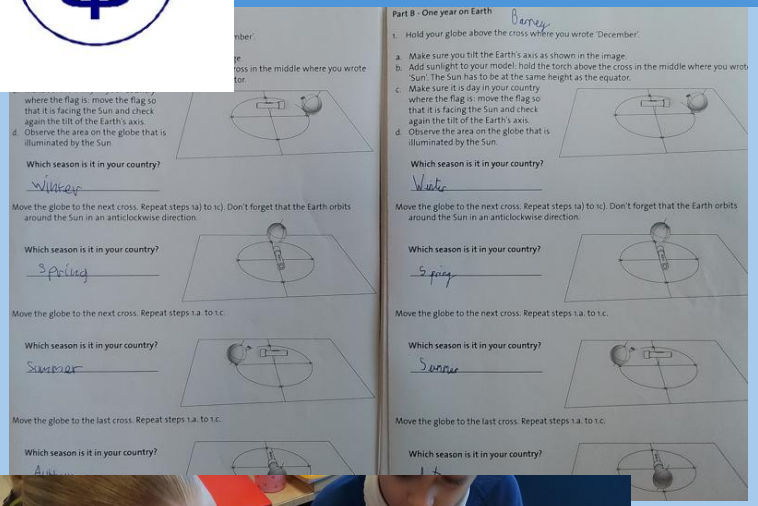
Space Case resource – used in changing materials unit of learning in the Science curriculum. Working in teams to test materials suitable for a satellite.

Use of ESERO resource Principia project – year 5 solving Space themed maths puzzles involving finding all possibilities.

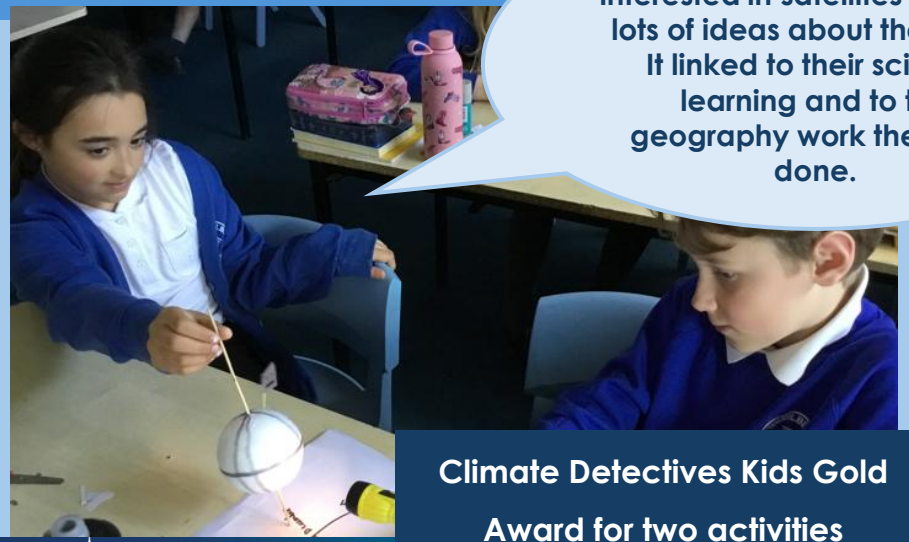


I loved this maths challenge! Can we do more maths like this? (Yr5 pupil)

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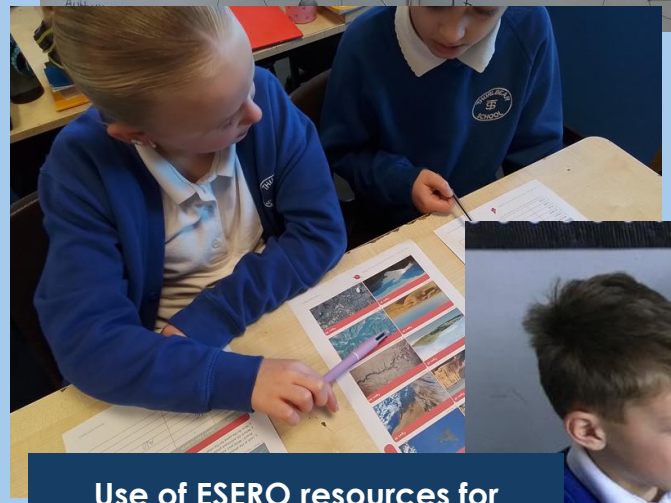




The class were really interested in satellites and had lots of ideas about their uses. It linked to their science learning and to the geography work they had done.

Climate Detectives Kids Gold Award for two activities completed and uploaded

ESERO Climate Detective Kids resources to understand seasons and the movement of the Earth.





Use of ESERO resources for Climate Detectives Kids. Looking at satellite images of Earth linked to Geography and Science curriculum.



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