



RICHARD GARRIOTT

EXPLORER OF EXTREME
ENVIRONMENTS &
COMPUTER GAME CREATOR

TWITTER HANDLE
@RichardGarriott
#venturetothedeep

Venture
to the
Deep



WATCH

<https://youtu.be/4bEc2DqbZQU>

ABOUT RICHARD

HIS JOURNEY INTO STEM

Richard built his love for STEM from an early age, when he was young his mum encouraged him to take part in science fairs. He is now fascinated about exploring whether people can live beyond Earth.

Most recently, Richard and his team of scientists took on a mission to collect samples of mud, water and small species of fish at the bottom of the Mariana Trench, which is the deepest oceanic trench on Earth, in an effort to discover how far microplastics can reach.

HIS JOB

Richard is a British-American explorer who has lived and worked in Earth's orbit on the International Space Station (ISS) and also taken dives to the wrecked Titanic as well as the Challenger Deep and explored both the North and South Poles.

Richard also has a keen interest in deep sea extreme life forms, even coming across new discoveries in samples from deep sea hydrothermal vents, which are cracks in the sea floor which heated water flows through.

On top of all of this, he is also a video game developer! Richard founded three video game publishers and published more than 15 of his own top selling games.

HIS HOBBIES

Richard loves exploring & creating, when not on an expedition or making video games, he can be found creating haunted houses with his kids or high-tech orreries in his friend Michael Dubno's basement.

THE QUESTION RICHARD WANTS TO ANSWER IS...

How can humanity live beyond planet Earth?

What can we learn from analysing plastic pollution at Earth's deepest points?

RICHARD INSPIRES YOU TO THINK ABOUT...

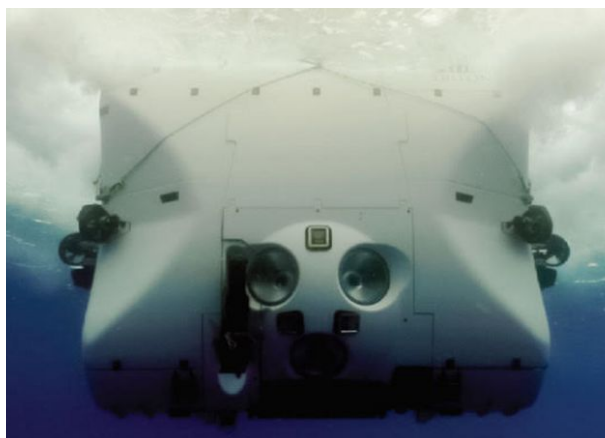
How you and your family can reduce plastic use at home and in school.

RICHARD GARRIOTT



Use Question Hands to inspire questions about life under water

www.greatscienceshare.org/question-makers



Richard travelled vertically down in his submersible called Limited Factor to reach the depths of an area in the Mariana Trench called Challenger Deep.

What was Richard trying to find?

The creatures that are found at this depth in the ocean are very different to the ones we know live closer to the surface. Richard and his team were interested to find new species by collecting biological samples from near to the seabed floor.

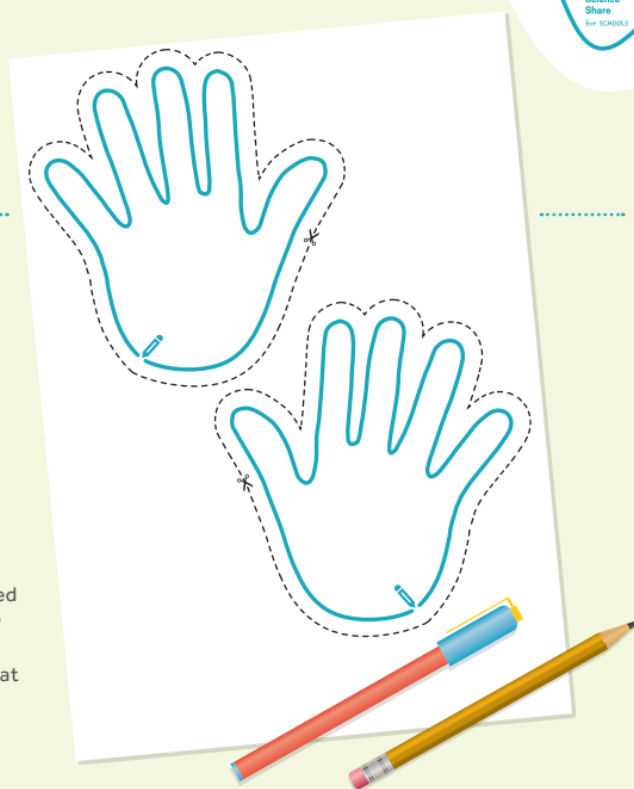
Question Hand

What you need?

A piece of paper, pen/pencil.

How does it work?

- 1 Draw around both your hands on a piece of paper and cut them out.
- 2 Write one of these phrases on each finger of one hand:
What if...
Where does...
Who can...
How does...
Is there...
- 3 On each finger of the other hand write a word that is linked to the science theme. Think about what you're curious to find out about.
- 4 Bring your hands together and create 2 new questions that you want to ask by linking the words on two fingers!
- 5 Write your questions in the palm of each hand and share with someone else.



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THE GLOBAL GOALS

RICHARD GARRIOTT

Ideas for deeper level thinking



Where is the International Space Station (ISS)?

Curriculum Links: Physics - forces, gravity, speed, orbits

Context: Space

Credit: STEM Learning

Resources: Eraser, 100cm piece of string

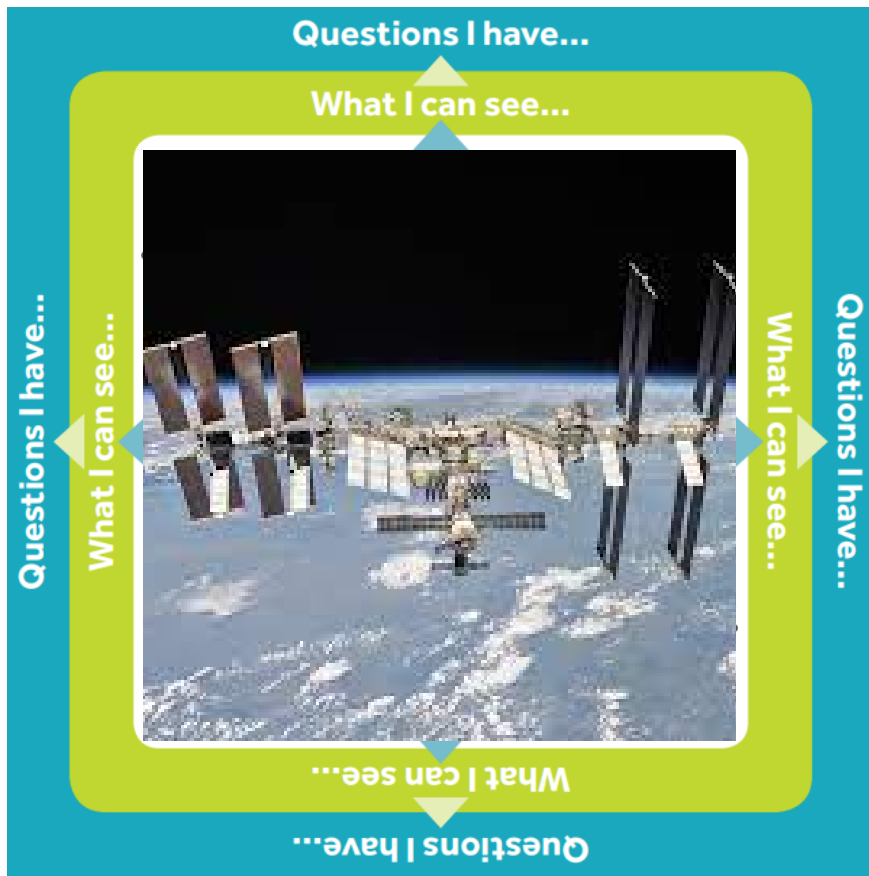
This activity links to pupils learning about forces or the solar system. Encourage the pupils to question and observe the effect of the length of the string on the way the eraser moves. What is this a useful model to explain? What can you deduce from this in terms of the orbit of ISS?

Access the activity

<https://www.stem.org.uk/resources/elibrary/resource/25901/international-space-station-iss-education-kit-lower-secondary>

https://www.stem.org.uk/system/files/elibrary-resources/legacy_files_migrated/2863-Edukitchap1_E.pdf

Use Question Frame to inspire questions about Space, the ISS, planets or more!



Other activities to prompt further discussion about orbit speeds could include:

- considering the distance between planets from the sun based on their size
- elliptical orbits.

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