

Key Stage 3

Links with National Curriculum - Sc4 Earth and Beyond

Links with QCA - unit 7L the solar system and beyond, unit 9J gravity and space

COULD YOU BE AN EXTRA TERRESTRIAL TRAIL?

Name

School

Date



Starting in the Exploring the Universe gallery

Question 1.

What are the three main ingredients for life?



1
2
3

Move to - The Planets gallery

Question 2.

What evidence is there for life on mars?



Question 3.

If there were life on Mars what features would it need to survive?



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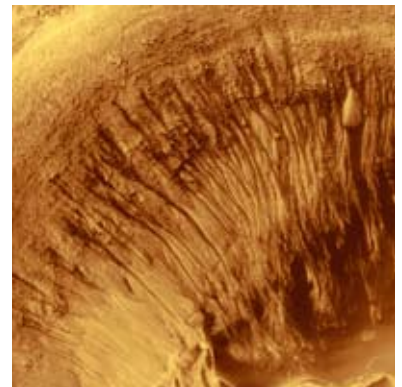
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COULD YOU BE AN EXTRA TERRESTRIAL TRAIL?

First we need to find out more about the planet and compare to our own.



Planet	Top surface temp	Lowest surface	Number of moons	Atmosphere	Extra description
Earth					
Mars					

Look at the differences between the planets and think about what a Martian might need to live on this planet.

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Question 4.

Draw a picture of your Martian and label any special features it has.

A large, empty rectangular box with a thin black border, intended for a student to draw a picture of a Martian planet and label its special features.

Special features

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Move to - Exploring the universe gallery

Question 5.

Find the message we sent to a nearby star cluster in the form of an electronic picture. This message was sent as a coded digital signal made up of 1's and 0's, to explain to any possible aliens that we are here.

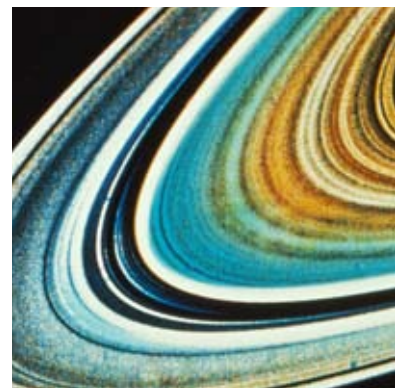
Can you work out what each part of the message means?

See if you were right by lifting up the flaps.

What do you think would happen if we got a reply?

Question 6.

Try the 'Am I alive' exhibit can you decide which things are alive?



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Question 7.

Aliens on Earth - Exhibit

Watch the video of creatures on our Planet.

Why do you think they have been labelled as alien creatures?

Question 8.

How have they adapted to their watery environment?

Think about your pretend aliens you made up for Mars.

So you want to be an Alien?

To become an Alien you must first become an astronaut.

First you will need to pass some tests.

Find the 'Into Space' Gallery

Question 9.

Colour blindness test: Take the colour blind test.

What numbers did you see?



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Question 10.

Space sickness test: Try the space sickness bowl.

Would you get sick in space?

Question 11.

Communication test:

How quickly can you and a friend put together 2 communication puzzles?

Question 12.

Reaction test:

Try out your reactions on the 'Do you react fast enough?' exhibit.

Compare your score with an average score, in the table below.

Age	9	10	11	12	13	14	15	16
Average score	31	32	36	38	38	41	41	41

Do you have what it takes to become an astronaut or an alien?