KS3: SPACE AND BEPICOLOMBO

MATERIAL PROVIDED BY THE SCHOOL OF PHYSICS AND ASTRONOMY
FOR MORE INFORMATION VISIT: HTTPS://LE.AC.UK/BEPICOLOMBO
There are eight planets in the solar system (not to scale).

- How hot do you think the planets are?
- Which planet do we live on?
- Why do we explore different planets?
- How long is an Earth year?
- What are the differences in how they all look?
THERE ARE EIGHT PLANETS IN THE SOLAR SYSTEM (NOT TO SCALE)
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(NOT TO SCALE)

WHY DOES EARTH HAVE GREEN ON IT, AND THE OTHER PLANETS DON'T?

HOW WOULD MERCURY'S WEATHER DIFFER TO EARTH'S?

HOW LONG DOES IT TAKE MERCURY TO ORBIT THE EARTH?
EARTH TAKES 365 DAYS TO ORBIT THE SUN
MERCURY TAKES 88 DAYS TO ORBIT THE SUN
WHY DON'T WE FALL OFF THE EARTH?

HTTPS://WWW.YOUTUBE.COM/WATCH?v=BLPtF_NQIQI
GRAVITY FROM THE SUN IS STRONGER ON MERCURY

https://www.youtube.com/watch?v=MTY1Kje0yLg
TEMPERATURE EXTREMES

- 400 °C (2 times hotter than a pizza oven)
- -170 °C (10 times colder than Antarctica)
BEPICOLOMBO
MISSION TO MERCURY

https://www.youtube.com/watch?v=MKEcanjC0eM&

Image credit: Airbus
TEMPERATURE EXTREMES FOR THE MISSION
TEMPERATURE EXTREMES FOR THE MISSION
ECLIPSES
Where will it be hot?

Where will it be cold?
*Northern hemisphere

SEASONS*

Summer

Winter
Mercury does have seasonal effects due to its non-circular orbit around the Sun.
HOURS OF THE DAY
Summer times

5:00 am
12:00 pm

HOURS OF THE DAY
Summer times
HOURS OF THE DAY
Summer times

9:15 pm
HOURS OF THE DAY
Summer times

12:00 pm

5:00 am

9:15 pm
HOURS OF THE DAY
Winter times

7:40 am
11:50 pm
3:50 pm
3:50 pm
7:40 am