ACTIVITY  THE POWER OF THE SUN
LOCATION  ALTAZIMUTH PAVILION

GALLERY  ALTAZIMUTH

Press the first button on the interactive: “How does the Sun affect us?”

Can you name three things that extreme solar activity can affect in our daily lives?

Use the panels in this building to determine what the Sun will become in 4.5 billion years time.

Research into the structure of the Sun is called?

- Blue Supergiant
- White Dwarf
- Red Giant
- Helioseismology
- Heliogeology
- Heliobiology
Sunspots on the surface of the Sun. Magnetic fields temporarily trap part of the Sun where it can cool and appear darker than the rest of the Sun.

It is said that the Earth can be placed inside the Sun 1 million times (i.e. the volume of the Sun = 1 million times the volume of the Earth). Using the panels, can you find out how much more massive the Sun is compared to Earth?

When you find this figure on the panels, you will have the mass and volume of the Sun compared to the Earth. Use the following equation to find out the density of the Earth compared to the Sun.

\[ \text{DENSITY} = \frac{\text{MASS}}{\text{VOLUME}} \]

What is the unit of density? (Mass in kilograms and volume in metres cubed)

Why is the Sun less or more dense than the Earth?