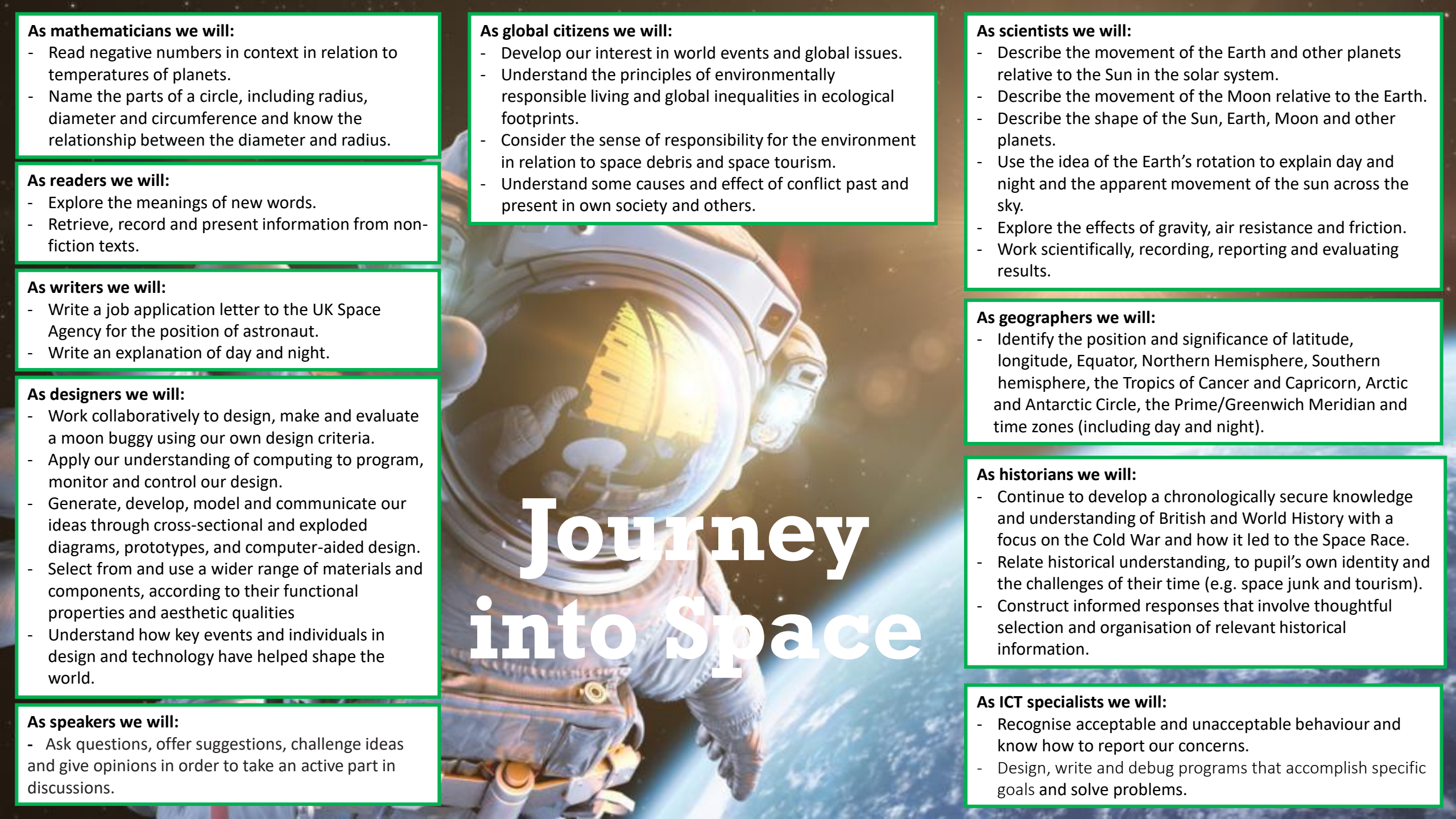
Journey into Space



As mathematicians we will:
- Read negative numbers in context in relation to temperatures of planets.
- Name the parts of a circle, including radius, diameter and circumference and know the relationship between the diameter and radius.

As readers we will:
- Explore the meanings of new words.
- Retrieve, record and present information from non-fiction texts.

As writers we will:
- Write a job application letter to the UK Space Agency for the position of astronaut.
- Write an explanation of day and night.

As designers we will:
- Work collaboratively to design, make and evaluate a moon buggy using our own design criteria.
- Apply our understanding of computing to program, monitor and control our design.
- Generate, develop, model and communicate our ideas through cross-sectional and exploded diagrams, prototypes, and computer-aided design.
- Select from and use a wider range of materials and components, according to their functional properties and aesthetic qualities
- Understand how key events and individuals in design and technology have helped shape the world.

As speakers we will:
- Ask questions, offer suggestions, challenge ideas and give opinions in order to take an active part in discussions.

As global citizens we will:
- Develop our interest in world events and global issues.
- Understand the principles of environmentally responsible living and global inequalities in ecological footprints.
- Consider the sense of responsibility for the environment in relation to space debris and space tourism.
- Understand some causes and effect of conflict past and present in own society and others.

As scientists we will:
- Describe the movement of the Earth and other planets relative to the Sun in the solar system.
- Describe the movement of the Moon relative to the Earth.
- Describe the shape of the Sun, Earth, Moon and other planets.
- Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.
- Explore the effects of gravity, air resistance and friction.
- Work scientifically, recording, reporting and evaluating results.

As geographers we will:
- Identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle, the Prime/Greenwich Meridian and time zones (including day and night).

As historians we will:
- Continue to develop a chronologically secure knowledge and understanding of British and World History with a focus on the Cold War and how it led to the Space Race.
- Relate historical understanding, to pupil's own identity and the challenges of their time (e.g. space junk and tourism).
- Construct informed responses that involve thoughtful selection and organisation of relevant historical information.

As ICT specialists we will:
- Recognise acceptable and unacceptable behaviour and know how to report our concerns.
- Design, write and debug programs that accomplish specific goals and solve problems.