

Year: A Term: 1  
Unit: Mission to Mars

**Curriculum Coverage:**

Science:

Y 5/6

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 Sun, Earth and Moon as approximately spherical bodies

use the idea of the Earth's rotation to explain day and night.

Work scientifically

Geography:

**Location knowledge:**

Identify the position and significance of latitude, longitude Equator, Northern Hemisphere, the tropics of Cancer and Capricorn, Arctic and Antarctic Circle, the Prime/Greenwich meridian and time zones (including day and night.)

**Geographical skills and fieldwork:**

use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied

DT:

Use research and develop design criteria to inform the design of innovative function, appealing products that are fit for purpose aimed at particular groups or individuals.

Generate, develop model and communicate their idea through discussion, annotated sketches, cross-sectional and prototypes, pattern pieces and computer aided design.

Select from and use wider range of tools and equipment to perform practical tasks accurately

Select from and use a wider range of materials and components, including construction materials, textiles and ingredient, according to their functional properties and aesthetic qualities.

Evaluate their idea and products against their own design criteria and consider the views of others to improve their work.

Understand how key events and individuals in D/T have helped shape the world.

Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.

Art:

To use sketchbooks to record their observations and use them to review and revisit ideas.

To improve their mastery of art and design techniques including drawing, painting sculpture with a range of materials.

**Resources:** IPC unit Mission to Mars, Yellow Box information books

**Tasks:**

Science: Research a planet and produce a fact file.

Shadow stick

Geog: Mark lines of longitude and latitude on ball. Record on sheets

Art:

DT: Design a space station to live on (IPC)

Other links:

[http://downloads.bbc.co.uk/tv/guides/BBC\\_Stargazing\\_Live\\_2012\\_Lesson\\_plans\\_KS2.pdf](http://downloads.bbc.co.uk/tv/guides/BBC_Stargazing_Live_2012_Lesson_plans_KS2.pdf)

[http://www.bbc.co.uk/schools/scienceclips/ages/9\\_10/earth\\_sun\\_moon.shtml](http://www.bbc.co.uk/schools/scienceclips/ages/9_10/earth_sun_moon.shtml)

[http://topicbox.net/science/physics\\_earth\\_and\\_beyond/7105/](http://topicbox.net/science/physics_earth_and_beyond/7105/)

<http://www.childrensuniversity.manchester.ac.uk/interactives/science/earthandbeyond/>