# Year 5

# **Space**

#### Science

Earth and Space

- •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 and the apparent movement of the sun across the sky



Vocabulary	
Asteroid	A small rocky body orbiting the sun.
Axis	An imaginary line about which a body rotates.
Celestial	Positioned in or relating to the sky, or outer space as observed in the astronomy.
Day	A twenty-four hour period, from one midnight to the next, corresponding to a rotation of the earth on its axis.
Dwarf Planet	A celestial body resembling a small planet but lacking certain technical criteria to be classed as a planet e.g. Pluto.
Moon	A natural satellite of any planet.
Night	The period from sunset to sunrise in each twenty-four hours
Orbit	The regularly repeated oval course of a celestial object around a star or planet.
Planet	A celestial body moving in orbit round a star.
Rotation	The action of rotating about an axis or centre.
Solar System	The collection of eight planets and their moons in orbit round the sun.
Star	A fixed luminous point in the night sky which is a large, remote body like the sun.
Sun	The star round which planets orbit.

### **Art and Design**

Digital Media

- 1. Record, collect and store visual information using digital cameras, video recorders
- 2. Present recorded visual images using software
- 3. Use a graphics package to create and manipulate new images
- 4. Be able to import an image (scanned, retrieved, taken) into a graphics package
- 5. Understand that a digital image is created by layering
- 6. Create layered images from original ideas (sketch books etc.)



#### Maths

#### Multiplication, Division, Perimeter and Area

- •Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
- •Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.
- Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.
- Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.
- •Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000.
- Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).
- •Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
- Calculate and compare the area of rectangles (including squares) including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes.

#### **Key Vocabulary**

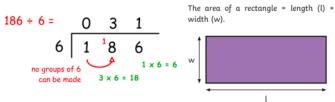
#### **Multiplication and Division**

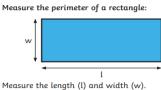
Multiplication, multiply, multiple, factor, groups of, times, product, repeated addition, division, divide, remainder, grouping, sharing, array, row, column, inverse square, squared, cube, cubed.

#### Perimeter and Area

Metre, kilometre, perimeter, length, width, rectangle, rectilinear, dimensions.







Measure the length (l) and width (w). Perimeter = l + w + l + w or  $(l + w) \times 2$ 

#### **English**

<u>Exploration Narrative:</u> Write a first-person Exploration Narrative.

Report: Write a formal report about a space mission.

#### **SPaG Glossary**

Adverb: A word that describes a verb, usually ending in –ly. For example, she ran quickly. Apostrophe: ( ' ) An apostrophe is a mark used to show that a letter has been left out.

Example: he is can be written he's. Apostrophes are also used to show ownership.

Examples: the cat's bowl, the cats' bowls.

Clause: A distinct part of a sentence including a verb. A main clause makes sense on its own.

A subordinate clause adds detail to the main clause but does not make sense on its own.

Compound sentence: A sentence consisting of two main clauses joined by a connective.

Complex sentence: A sentence consisting of a main clauses and one or more subordinate clause.

Dialogue: Speech between two or more people.

Ellipsis: ... Used to create suspense or to show omission.

Embedded clauses: Adding extra information into the middle of a sentence using commas e.g. The man, who is tall, ran down the road.

Metaphor: A direct comparison without the use of like or as e.g. the clouds were cotton wool in the sky.

Personification: Giving human qualities to non-human objects e.g. the leaves danced in the wind.

Phrase: Two or more words that act as a unit and do not have a verb e.g. over the bridge.

Speech marks: Punctuation marks that go around the words that are actually spoken in a piece of writing ""

# WHERE ONCE WE STOOD

## <u>**PE**</u> Dance/ Badminton

