

### Science

- Forces make objects move, stop, change direction, shape and speed.
- Water and air resistance are a form of friction.
- Air and water resistance and friction will slow a moving object.
- The use of levers, pulleys and gears allow a smaller force to have a greater effect.
- Mercury, Venus, Earth and Mars are rocky planets and Jupiter, Saturn, Uranus and Neptune are mostly made up of helium and hydrogen.
- The moon orbits the Earth in an oval-shaped path, while spinning on an axis.
- The 8 planets orbit the Sun in an oval-shaped path called an ellipses.
- Due to the movement of the Earth, it appears that the Sun moves but it does not.
- A full rotation of the Earth takes 24 hours and an orbit takes 365 and quarter days. This gives us days, nights and years.

### Computing

- Debugging is the process of finding and resolving bugs within a computer program.
- An algorithm is a set of codes that when triggered causes a relevant action to take place.
- Scratch is an online coding website that we can use individually or collaboratively.
- We should only accept friend requests from people we know.
- We must tell an adult if we see something we don't like online.

### Geography

- The process of the water cycle is the evaporation of water, transpiration and condensation of this water, then precipitation. Snowmelt is surface run off produced by the melting of snow.
- Human and physical features of regions could include population, amenities and rivers.

# SPACE AND THE FINAL FRONTIER

### Art

- The 3 main types of drawing for perspective are horizontal lines, vanishing point and vanishing lines.
- A 2B or 3B pencil are best for precision drawing.
- Scale and proportion are important in artwork as it can create a sense of realism and helps give the artwork balance.
- Post-impressionism is a French art movement that developed between 1886 and 1905.
- Patterns can be found in artwork such as the repetition of shapes or symbols.
- Patterns can be man-made, such as when used in design, or found in nature such as in waves and leaves.

# SPRING TERM LEARNING REVIEW HODGKIN CLASS

### DT

- When designing a product, it is important to research existing products; this can be done using technology.
- Saws can be used for cutting, chisels for shaping and paint or lacquer for finishing.
- Computer-aided design and laser cutters are technologies used in the world of design.
- Planning a new product can include annotated sketches, cross-sectional drawings, prototypes, pattern pieces and computer-aided design.
- Structures can be strengthened using different joins and the use of triangles.

### RE

- Sikhs wear 5 symbols to show their devotion to Sikhism and they are; Kara, Kachera, Kirpan, Kesh and Kanga. Sikhs can pray at anytime and have a strict code of conduct to start their day.
- The Eightfold Path is thought to help Buddhists achieve Nirvana, which is the ultimate spiritual goal for a Buddhist. It is used as a guide for everyday life.

### Music

- Gustav Holst was a English composer who is best known for his orchestral suite 'The Planets.'
- Crescendo means 'gradually getting louder' and tempo means the 'speed of the music.' This musical language can be used to describe different types of music.
- Music is written down in notations and allows the musician to read the rhythm and pitch of the notes they need to play.
- A whole note is called a 'semibreve', a half note is called a 'minim' and quarter note is called a 'crotchet.'