## Geography

### Key Questions

- 1. Who was Benjamin Britten?
- 2. What was his job?
- 3. What is an orchestra?
- 4. What are the 4 main sections of an orchestra called?
- 5. Can you name an instrument for each section?
- 6. What is an opera?
- 7. What are the names of the different singers in an opera?
- 8. How do they sing?

# Key Vocabulary

Orchestra - A large ensemble of musicians divided into 4 families of musical instruments.

Ensemble - A group of musicians

**Conductor** - Stands at the front of the orchestra and directs it using a baton.

**Strings** - Made from wood and have strings usually played with a bow and be plucked.

**Woodwind** - played by blowing into the instrument and reed instruments.

**Brass** - Made from metal and the sound is made by 'buzzing' through the mouthpiece.

**Percussion** -instruments which sound when hit, struck, scraped or shaken.

### Science

## Key Questions

- 1. How do light waves travel?
- 2. How does light enable us to see objects?
- 3. What does reflection mean?
- 4. When a beam of light hits an object, how does it reflect off the object?
- 5. How are shadows formed?
- 6. Can you change the shape of a shadow?
- 7. How can you change the size of a shadow?

## Key Vocabulary

dark - the absence of light

direction - the way that something is moving

light - a source of energy that allows you to see

light beam - a group of light rays

light source - something that makes light

opaque - cannot see through

reflect - bounces o or changes direction

reflective - something that reflects well

see - to perceive with the eyes

**shadow** - a dark area or shape produced by an object coming between rays of light and a surface

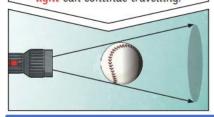
transparent - can see through

translucent - can see through partially, but not in detail

# Knowing More and Remembering More at St Joseph's

### Lead Subjects: Science & Geography

A shadow is always the same shape as the object that casts it. This is because when an opaque object is in the path of light travelling from a light source, it will block the light rays that hit it, while the rest of the light can continue travelling.



Key Vocabulary	
light	A form of energy that travels in a wave from a source.
light source	An object that makes its own light.
reflection	Reflection is when light bounces off a surface, changing the direction of a ray of light.
incident ray	A ray of light that hits a surface.
reflected ray	A ray of <mark>light</mark> that has bounced back after hitting a surface.
the law of reflection	The law states that the angle of the incident ray is equal to the angle of the reflected ray.

Key Knowledge

We need light to be able to see things. Light waves trave

We need **light** to be able to see things. **Light** waves travel out from sources of **light** in straight lines. These lines are often called rays or beams of **light**.

Light from the sun travels in a straight line and hits the chair. The light ray is then reflected off the chair and travels in a straight line to the girl's eye, enabling her to see the chair.



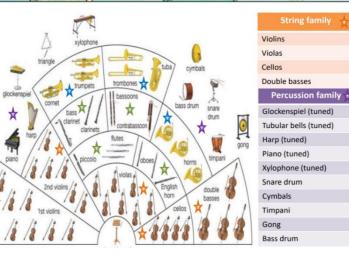
Operas consist of solo singers and a chorus. The orchestra that will provide the musical accompaniment to opera singers will consist of strings, woodwind, brass and percussion.

There is no speaking in an opera, only singing. Solo singers perform arias - solo songs that drive the narrative of the opera's story. The chorus will join in for the bigger songs and consist of a SATB choir who will sing mostly in harmony.

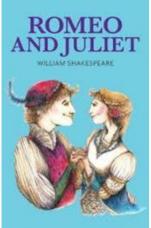
The parts that comprise an SATB choir are:

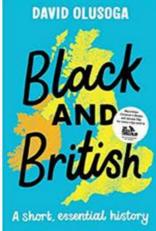
- Soprano
- Alto
- Tenor
- Bass

Brass family 🛕
Trumpets
Cornets
Trombones
French horns
Tubas
Woodwind family
Piccolos
Flutes
Flutes Oboes
Oboes
Oboes English Horns
Oboes English Horns Bassoons









**English Texts** 





Transverse Line (1923)

Composition VIII (1923)