

Year group: 6 Term: Summer 1

Focus Science - light

BIG Question: Do all light sources travel and behave the same?



Key Vocabulary:

Light, sources, opaque, transparent, reflection, refraction, translucent, reflection, shadow

Practise at Home:

Homework revision
Maths, SPaG and reading
School play

Cultural Capital/Trips/Local Area and Opportunities for Outdoor Learning:

School grounds for identifying objects that are translucent and transparent

Relationships and Health Education:

How a baby grows and develops in its mother's womb
Pregnancy and childbirth are God's way of giving the gift of life: He creates new life, but entrusts parents with the job of making us
Basic scientific facts about sexual intercourse between a man and woman
The physical, emotional, moral and spiritual implications of sexual intercourse
The Christian viewpoint that sexual intercourse should be saved for

As Musicians, we will:

Know that music has a steady pulse, like a heartbeat. • know that we can create rhythms from words, our names, favourite food, colours and animals. • Rhythms are different from the steady pulse. • We add high and low sounds, pitch, when we sing and perform

DT: As designers, we will:

Select a range of appropriate tools to cut, shape and join materials and components with accuracy and precision.
Use an increasing range of tools and equipment to measure, mark out and shape materials and components accurately.

RE: as theologians, we will:

EXPLORE
Each of us, by the way we live our lives, the way we treat others, and by our words and actions, show if we have an attitude of service.
Often, we are especially influenced by those whose actions speak powerfully of a life of service.
• Think of someone who impresses you deeply because of the way she/he lives.
• What is it that impresses you?
• What do you think inspires them?

REVEAL
Christians believe that the Spirit of God is active in each person and, in a special way, in the community of believers, which is the Church. It is the work of the Spirit to enable people to hear God's message and to live Jesus' way of service.

Science: As scientists, we will:

Recognise that they need light in order to see things and that dark is the absence of light; notice that light is reflected from surfaces
Recognise that light from the sun can be dangerous and that there are ways to protect their eyes; Recognise that shadows are formed when the light from a light source is blocked by an opaque object; Find patterns in the way that the size of shadows changes.
Recognise that light appears to travel in straight lines; Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye; Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes
Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.



Maths: As mathematicians, we will

Revision of:
Geometry fractions place value
Measurement percentages area
Calculations decimals perimeter
Four operations shapes angles
Algebra
• use simple formulae
• generate and describe linear number sequences
• express missing number problems algebraically
• find pairs of numbers that satisfy an equation with 2 unknowns
• enumerate possibilities of combinations of 2 variables

English: As readers and writers, we will:

Biography dialogue flashback
plan their writing by:
identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own noting and developing initial ideas, drawing on reading and research where necessary
in writing narratives, considering how authors have developed characters and settings in what pupils have read, listened to or seen performed
draft and write by:
selecting appropriate grammar and vocabulary, understanding how such choices can change and enhance meaning
in narratives, describing settings, characters and atmosphere and integrating dialogue to convey character and advance the action
precising longer passages
using a wide range of devices to build cohesion within and across paragraphs

Art: As artists, we will:

Pupils should be taught to develop their techniques, including their control and their use of materials, with creativity, experimentation and an increasing awareness of different kinds of art, craft and design.
Pupils should be taught:
to create sketch books to record their observations and use them to review and revisit ideas
to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay]
to know about great artists, architects and designers in history.

PE: As athletes, we will:

athletics – stamina and consistent pace, long jump :standing and running, javelin and shotput
Tennis – forehand, backhand, stepping into a shot and controlling a ball

Computing: As programmers, we will

Begin to understand what the term data means and how data can be collected in the form of a tally chart.
Learn the term 'attribute' and use this to help organise data.
Progress onto presenting data in the form of pictograms and finally block diagrams.
Use the data presented to answer questions

