

Science—Light

Pupils should be taught to:

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 change

Science— Forces and Magnets

Pupils should be taught to:

compare how things move on different surfaces
notice that some forces need contact between two objects, but magnetic forces can act at a distance

predict whether two magnets will attract or repel each other, depending on which poles are facing.

observe how magnets attract or repel each other and attract some materials and not others

compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials

describe magnets as having two poles

Science— Energy

Science— Sound

Pupils should be taught to:

identify how sounds are made, associating some of them with something vibrating

recognise that vibrations from sounds travel through a medium to the ear

find patterns between the pitch of a sound and features of the object that produced it

find patterns between the volume of a sound and the strength of the vibrations that produced it

recognise that sounds get fainter as the distance from the sound source increases.

Science— Electricity

Pupils should be taught to:

identify common appliances that run on electricity

construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers

recognise some common conductors and insulators, and associate metals with being good conductors.

identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery

recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit

Art

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

D&T

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

select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

Science- Energy

Geography

human geography, including: types of settlement and land use.

Music

appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians

use and understand staff and other musical notations