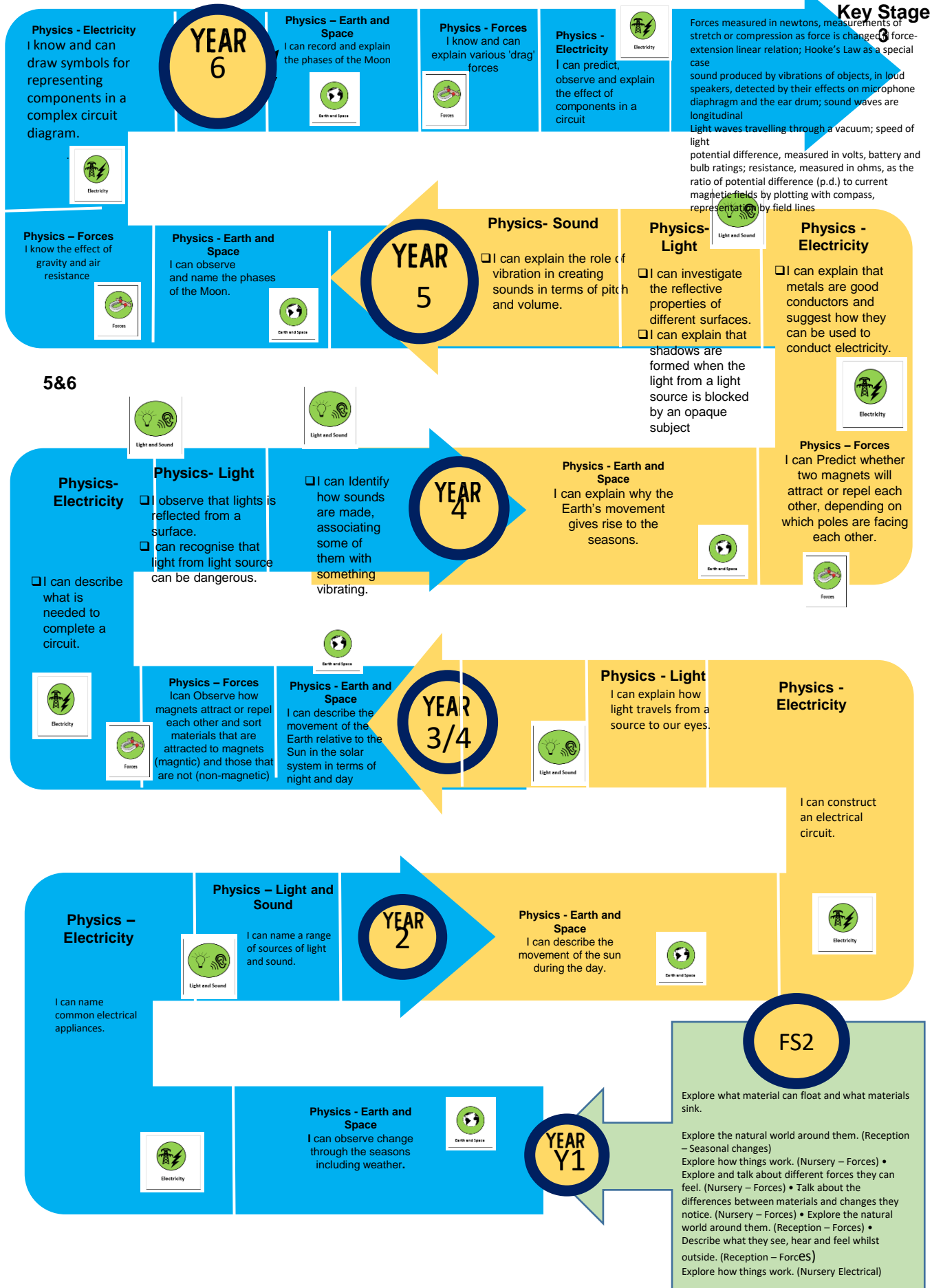


Key Stage



YEAR 6

Physics - Electricity
I know and can draw symbols for representing components in a complex circuit diagram.



Physics - Earth and Space
I can record and explain the phases of the Moon



Physics - Forces
I know and can explain various 'drag' forces



Physics - Electricity
I can predict, observe and explain the effect of components in a circuit



Forces measured in newtons, measurements of stretch or compression as force is changed; force-extension linear relation; Hooke's Law as a special case
sound produced by vibrations of objects, in loud speakers, detected by their effects on microphone diaphragm and the ear drum; sound waves are longitudinal
Light waves travelling through a vacuum; speed of light
potential difference, measured in volts, battery and bulb ratings; resistance, measured in ohms, as the ratio of potential difference (p.d.) to current
magnetic fields by plotting with compass, representation by field lines

YEAR 5

Physics - Forces
I know the effect of gravity and air resistance



Physics - Earth and Space
I can observe and name the phases of the Moon.



Physics- Sound
I can explain the role of vibration in creating sounds in terms of pitch and volume.

Physics- Light
I can investigate the reflective properties of different surfaces.
I can explain that shadows are formed when the light from a light source is blocked by an opaque subject



Physics - Electricity
I can explain that metals are good conductors and suggest how they can be used to conduct electricity.



5&6



Physics- Electricity
I can describe what is needed to complete a circuit.



Physics- Light
I can observe that light is reflected from a surface.
I can recognise that light from light source can be dangerous.

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

YEAR 4

Physics - Earth and Space
I can explain why the Earth's movement gives rise to the seasons.



Physics - Forces
I can Predict whether two magnets will attract or repel each other, depending on which poles are facing each other.



YEAR 3/4

Physics - Forces
I can Observe how magnets attract or repel each other and sort materials that are attracted to magnets (magnetic) and those that are not (non-magnetic)



Physics - Earth and Space
I can describe the movement of the Earth relative to the Sun in the solar system in terms of night and day



Physics - Light
I can explain how light travels from a source to our eyes.



Physics - Electricity
I can construct an electrical circuit.



YEAR 2

Physics - Electricity
I can name common electrical appliances.



Physics - Light and Sound
I can name a range of sources of light and sound.

Physics - Earth and Space
I can describe the movement of the sun during the day.



FS2

Explore what material can float and what materials sink.
Explore the natural world around them. (Reception - Seasonal changes)
Explore how things work. (Nursery - Forces) • Explore and talk about different forces they can feel. (Nursery - Forces) • Talk about the differences between materials and changes they notice. (Nursery - Forces) • Explore the natural world around them. (Reception - Forces) • Describe what they see, hear and feel whilst outside. (Reception - Forces)
Explore how things work. (Nursery Electrical)

YEAR Y1

Physics - Earth and Space
I can observe change through the seasons including weather.

