



Year 6 Science Knowledge Organiser

Light and Electricity

What do I need to know and understand:

- Light travels in straight lines.
- There are two types of light sources: Natural and man-made and I can identify types of each.



- Shadows take the shape of the object blocking the light – they're also bigger the closer they get to the light source
- We see things because objects reflect light into our eyes.

Vocab

Light source – something that gives out its own light.

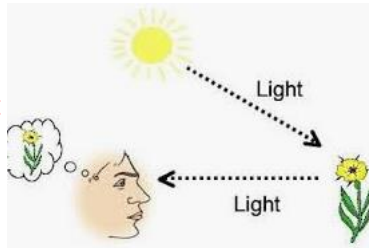
Reflection – When light bounces off a surface.

Transparent – lets light through.

Translucent – lets some light through.

Opaque – lets no light through.

Shadow – A dark area made when light rays are blocked by an object.

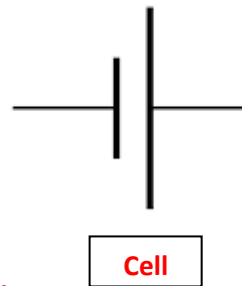
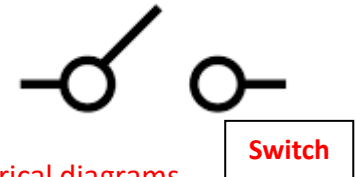


What I have remembered from previous years:

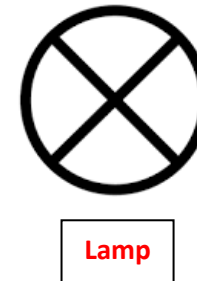
1. You need light to see and the dark is an absence of light.
2. Light from the sun can be dangerous.
3. Opaque objects create shadows.
4. I can identify common objects that run on electricity.
5. I can construct simple circuits and identify their components.
6. Recognise when a circuit is complete.
7. Recognise some simple conductors and insulators.

What do I need to know and understand:

- 1) The brightness of bulbs and loudness of buzzers are directly linked with the amount of batteries in a circuit.
- 2) That a switch acts as a break in a circuit.
- 3) To recognise the key symbols used in electrical diagrams.



Cell



Lamp



Buzzer

Vocab

Cell – A source of power in an electrical circuit

Electrical component – Something that does a job in a circuit e.g. A bulb or switch

Voltage – The amount of power something has.