



Shadsworth Junior School



Curriculum

Year 3 Scheme of Work

Term: Autumn 1

Topic: Science – Light and Dark

Key Skills and Knowledge:

Light and Dark

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 a solid object.

Find patterns in the way that the size of shadows change.

Working Scientifically

Pupils should ask relevant questions and be encouraged to research the answers themselves. Set up a fair test to see what happens when there is more than one source of light and record findings.

Looking for patterns in what happens to shadows when the light source moves or the distance between the light source and the object changes.

Reading and Writing Opportunities (Long and Short Activities) Creative Ideas and Hooks

Explanation of what makes light and dark.
WOW Starter – Children to use torches to create different shapes and attempt to photograph the shape.

Learning Challenge question – How far can you throw your shadow?
Create cat's eyes using marbles and playdoh
Shadow puppets

Links to PSHCE, Equality and British Values Work

Disability and blindness
Percy Shaw (scientist and inventor of Cat's eyes in the road)
Being afraid, emotions

Key Vocabulary:

Light, dark, reflection, shadows, light source, absence of light, periscope
Moon, earth, orbit.

Resources Available / Visits/Visitors

Text – Orion and the Dark by Emma Yarlett (class book used in both literacy and science lessons)

Various Torches and batteries

Large chinks for outdoor learning

How far can you throw your shadow?

Useful Websites:

www.bbc.co.uk/education/clips/z74hgk7

Previous Knowledge:

Know that humans and some animals need light to see.
Plants need light to grow

Recognise some sources of light.