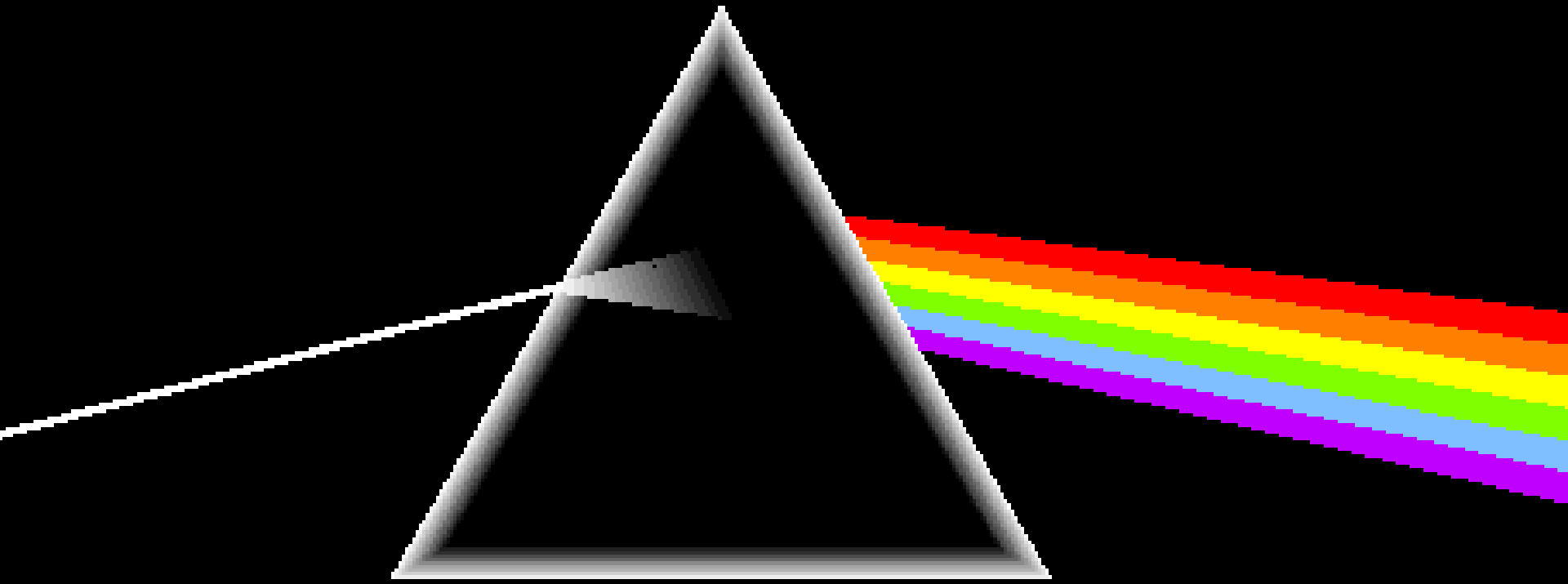
Winter Class

Cycle B

Summer 1

2022



Eye can see you!

Cycle B

Summer 2022

Eye can see you!

Winter Class

Rational: the children will learn by investigation about the paths of light and how we see objects. They will communicate their understanding of light and sight (selecting a medium of their choice) using the language related to information and explanation. Using IT, they will explain a light phenomena.

Hook: Show images of amazing light phenomena

English

•Main focus Non-fiction. The children will produce an explanation text on the human eye

•Secondary writing: information text on animal eyes and natural light phenomena

Science

- Investigate paths of light and draw arrow diagrams to show how light enters the eye.
- Study the eye and how we see
- Investigate how to alter the size of a shadow
- apply scientific understanding to explain light properties of materials
- Investigate how light is reflected from different surfaces.

ICT

•Use the internet to research information

•Communicate their learning using Scratch or Movie Maker

DT

•Make a periscope using understanding of reflective angles

•Draw a plan of their design using a good degree of accuracy

•Follow plan and construct a periscope

•Evaluate their work and explain how it works.

Maths:

•Link ideas on Reflection, symmetry and angles to paths of light.

•Statistics. Children to collect continuous data and display using a graph.

Thinking Skills

•Identify patterns from results and explain these using scientific understanding and knowledge

•Pose questions which can be investigated

•Think about information necessary and how best to display it at the correct level for the target audience.

Outcome: Produce an informative piece using IT to explain a light phenomena

Outcome afternoon: Wednesday 22nd June @ 2.45pm

Toolbox skills:

- Children to collaborate where necessary
- Children to effectively communicate their understanding of the topic
- Research independently
- Thinking for themselves
- Reflect: What have I learnt? What went well? What would I do differently next time?

Eye can see you!

Winter Class

Measure angles in maths then apply understanding to the paths of light

Discover the anatomy of the human eye

Identify patterns in results and link these to understanding of light

Investigate what factors will alter the size of a shadow

Find out about different animal eyes

Ask questions which can be investigated

Study reflection and symmetry in maths

Draw accurate diagrams showing the paths of light

Use either Scratch or Movie Maker to design an explanation (to a KS2 target audience) of a natural light phenomena

Examine the layout, language and style of explanation texts

Demonstrate an awareness of target audience when writing

Investigate the light properties of materials

Investigate how light behaves on dull and shiny surfaces and use scientific understanding to explain what is happening

Write an explanation text to present information on how the eye works

We will present our learning on our outcome afternoon on **Wednesday 22nd June** at 2.45 in Winter Class