

### Scientific knowledge

- 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 sizes of shadows change

### Maths

#### *Statistics*

Interpret and present data using bar charts, pictograms and tables (Yr3)

Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs (Yr4)

#### *Measurement*

Measure, compare, add and subtract: lengths (Yr3)

Convert between different units of measure (Yr 4)

## LIGHT



*Learn about Light as you search  
for Dragons!!*

### Scientific enquiry

- asking relevant questions and using different types of scientific enquiries to answer them
- setting up simple practical enquiries, comparative and fair tests
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment
- gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- using straightforward scientific evidence to answer questions or to support their findings

### Lines of enquiry

*It is important we understand  
'how' we learn about Science.*



*Observing over time - Scrutin  
- eyes*



*Comparative and fair testing -  
Fair Flo*



*Identifying, classifying and  
grouping - Commander  
Classify*



*Pattern Seeking - Pattern  
Man*



*Research using secondary  
sources - Roger Research*