

'Reaching Up'

What should I already know?

Observe and describe changes across the four seasons. Observe and describe weather associated

with the seasons and how day length and temperature varies. (Year 1)

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 size of shadows change

Year 3 Intention: In Science I will be learning about Light and Shadows

Scientific Skills

i) asking relevant questions and using different types of scientific enquiries to answer them

ii) setting up simple practical enquiries, comparative and fair tests

iii) making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers

iv) gathering, recording, classifying and presenting data in a variety of ways to help in answering questions

v) recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables vi) reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

vii) using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions

viii) identifying differences, similarities or changes related to simple scientific ideas and processes using straightforward scientific evidence to answer questions or to support their findings

Vocabulary

Light, white light, visible light, colour, spectrum, refraction, light source, energy, reflector, reflect, predict, investigate, reflective materials, mirror, reflection, image, concave, convex, transparent, translucent, opaque, shadow