

## **Wordsworth Science Curriculum**

|   |  | K      | S2 Light |   |   |
|---|--|--------|----------|---|---|
|   | Year 3 Spring 1  | Year 4 | Year 5   |   | Year 6 Spring 1   |
|   |  |        | Skills   |   |   |
| comp<br>patter<br>when<br>distan  | p practical enquiries and parative tests e.g. look for rns in what happens to shadows the light source moves or the nee between the light source and pject changes   |        |          | • | Plan a scientific enquiry to answer a question including recognising and controlling variables  |
| • Make  | e systematic and careful rvations  |        |          | • | Make systematic and accurate observations   |
| give r  | simple measurements to<br>more precise explanations<br>conclusions   |        |          | • | <b>Take measurements</b> with accuracy and precision using a range of scientific equipment  |
| prese   | rt findings in an oral<br>entation (e.g. linked to<br>et show)   |        |          | • | Report and present findings including conclusions and causal relationships  |
| <ul> <li>Ident<br/>and c<br/>used</li> </ul>  | cify similarities, differences changes based on materials ctraightforward scientific   |        |          | • | Identify scientific evidence that has been used to support or refute ideas or arguments (e.g. analysing historic scientific thought)  |
|   | ence to answer questions   |        |          | • | Apply knowledge in a variety of ways e.g. deciding where to place rear-view mirrors on cars; designing and making a periscope and using the idea that light appears to travel in straight lines to explain how it works   |
|   | Knowledg   | ge     |          |   |   |
| order is the Unde from Reco can b are w Reco forme sourc objec which inves Know chang | gnise that they need light in a to see things and that dark absence of light erstand that light is reflected surfaces gnise that light from the sunce dangerous and that there ways to protect their eyes gnise that shadows are ed when the light from a light the is blocked by an opaque ext — outdoors — identifying in objects cause shadows tigate) why size of shadows ge. — outdoors (e.g. chair riment — over the course of |        |          | • | Recognise that light appears to travel in straight lines  Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye  Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes  Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them |