Light How does my shadow change over the day? *Comparative and fair testing*	**Heart, diet and nutrition** Is there a pattern between what we eat for breakfast and how fast we can run? *Pattern seeking*	**Evolution and inheritance** What happened when Charles Darwin visited the Galapagos Islands? *Observing over time*	**Living things and their habitats – classification & microorganisms** How would you make a classification key for vertebrates/invertebrates or microorganisms? *Identifying, classifying and grouping*	**Transition unit – Forces** How does the angle of launch affect how far a paper rocket will go? *Comparative and fair testing*
I can recognise that light appears to travel in straight lines. I can 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. I can explain that we see things because light travels from light sources to	I can identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. I can recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. I can describe	I can recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. I recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical	I can describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals. I can give reasons for classifying plants and animals based on specific characteristics.	I can explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. I can identify the effects of air resistance, water resistance and friction that act between moving surfaces. I can recognise that some

our eyes or from light sources to objects and then to our eyes. I can use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them	the ways in which nutrients and water are transported within animals, including humans.	to their parents. I can identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.		mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect.