Science

St Peter in Thanet CE Junior School

Spring 2

Year 3	Year 4	Year 5	Year 6
Light - 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 a solid object - Find patterns in the way that the sizes of shadows change. **Working Scientifically** - To be able to set up a simple fair test. - To be able to make systematic and careful observations and measurements. - To be able to make predictions	**Sound** - Identify how sounds are made, associating some of them with something vibrating - Recognise that vibrations from a sound travel through a medium to the ear - Find patterns between the pitch of a sound and features of the object that produced it - Recognise that sounds get fainter as the distance from the sound source increases **Working Scientifically** - To be able to set up a simple practical enquiry. - To be able to make systematic and careful measurements with a data logger.	**Forces** -Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object -Identify the effects of air resistance, water resistance and friction, that act between moving surfaces -Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. **Working Scientifically** -To be able to take repeated accurate measurements using a stopwatch. -To be able to use test results to make predictions to set up further fair-tests. -To be able to identify scientific evidence that has been used to support or refute ideas or arguments.	**Living things and their habitats** -Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals -Give reasons for classifying plants and animals based on specific characteristics. **Working Scientifically** - To be able to identify scientific evidence that has been used to support or refute ideas or arguments. -To be able to make a key to classify animals