



EASTRY C OF E PRIMARY SCHOOL KNOWLEDGE ORGANISERS



YEAR GROUP	6
SUBJECT	Science
KEY VOCABULARY	light, shadow, reflect, source, voltage, cells, lamp, buzzer, circuit, switch, fossils, inhabited, offspring, identical, environment, adapted, evolution, adaptation, circulatory system, blood, nutrients, blood vessels, heart, diet, exercise, drugs, lifestyle, characteristics, features, classify, micro-organism, plants, reptiles, amphibians, vertebrate, invertebrate, mammal
END POINTS KNOWLEDGE	<ul style="list-style-type: none">• I know that light appears to travel in straight lines• I understand and 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 know that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes• I understand and use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them• I can associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit• I know that there are variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches• I know and can use the recognised symbols when representing a simple circuit in a diagram.• I know that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.• I know that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents• I know how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.



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	<ul style="list-style-type: none">• I know and can name the main parts of the human circulatory system, and explain the functions of the heart, blood vessels and blood • I know how diet, exercise, drugs and lifestyle can impact on the way our bodies function• I know how nutrients and water are transported within animals, including humans.• I know 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• I know why it is important to classify plants and animals based on specific characteristics
Investigative skills end point	<ul style="list-style-type: none">•
IT HELPS IF I ALREADY KNOW	<p>All living things and their habitats (year 5) I know the life cycles of a mammal, an amphibian, an insect and a bird.</p> <p>I know the life process of reproduction in some plants and animals.</p> <p>Space: (year 5) I know how the Earth, and other planets, relative to the Sun in the solar system</p> <p>I know the movement of the Moon relative to the Earth</p>



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Describe the Sun, Earth and Moon as approximately spherical bodies

Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky

Electricity (year 4)

- I can identify common appliances that run on electricity
- I can construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
- I can identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery
- I can recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
- I can recognise some common conductors and insulators, and associate metals with being good conductors

Animals including humans

I know the changes as humans develop from birth to old age.

Light

I can recognise that they need light in order to see things and that dark is the absence of light

I know that light is reflected from surfaces

I can recognise that light from the sun can be dangerous and that there are ways to protect their eyes

I know how to recognise that shadows are formed when the light from a light source is blocked by a solid object

I know how to find patterns in the way that the sizes of shadows change.



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Investigative skills I already know	
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