

Year 6 2024/5	Autumn Term 1	Autumn Term 2	Spring Term 1 and 2		Summer Term 1 and 2
	Sustainability Year group focus for science week: energy consumption (our school)				
	Caring for our planet → How can we make the use of wind turbines more sustainable? Royal Society of Chemistry – Electricity production & use Page 1				Caring for our planet → How can we delay melting ice? Royal Society of Chemistry – Animals and their habitats Page 2
Science	<p style="text-align: center;">Electricity</p> <ul style="list-style-type: none"> • associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit • compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches • use recognised symbols when representing a simple circuit in a diagram. • 	<p style="text-align: center;">Light</p> <ul style="list-style-type: none"> • 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 	<p style="text-align: center;">Animals including humans</p> <ul style="list-style-type: none"> • identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood • recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function • describe the ways in which nutrients and water are transported within animals, including humans. 	<p style="text-align: center;">Evolution and Inheritance</p> <ul style="list-style-type: none"> • recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago • recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parent • identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. 	<p style="text-align: center;">Living things and their habitats/ Classification</p> <ul style="list-style-type: none"> • 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.

<p>Working Scientifically Red= must be done Amber = this will be an easy link</p>	<ul style="list-style-type: none"> • Select the most appropriate ways to answer science questions using different types of scientific enquiry, including observing changes over different periods of time, noticing patterns, grouping and classifying things, carrying out comparative and fair tests and finding things out using a wide range of secondary sources • planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary • taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate • recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs • using test results to make predictions to set up further comparative and fair tests • reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations 	<ul style="list-style-type: none"> • . Select the most appropriate ways to answer science questions using different types of scientific enquiry, including observing changes over different periods of time, noticing patterns, grouping and classifying things, carrying out comparative and fair tests and finding things out using a wide range of secondary sources. • planning different types of scientific enquiries to answer questions, including <ul style="list-style-type: none"> • recognising and controlling variables where necessary • taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate • recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs • using test results to make predictions to set up further comparative and fair tests • reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations 	<ul style="list-style-type: none"> • Select the most appropriate ways to answer science questions using different types of scientific enquiry, including observing changes over different periods of time, noticing patterns, grouping and classifying things, carrying out comparative and fair tests and finding things out using a wide range of secondary sources. • planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary • taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate • recording data and results of 	<ul style="list-style-type: none"> • Select the most appropriate ways to answer science questions using different types of scientific enquiry, including observing changes over different periods of time, noticing patterns, grouping and classifying things, carrying out comparative and fair tests and finding things out using a wide range of secondary sources. • planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary • taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate • recording data and results of 	<ul style="list-style-type: none"> • Select the most appropriate ways to answer science questions using different types of scientific enquiry, including observing changes over different periods of time, noticing patterns, grouping and classifying things, carrying out comparative and fair tests and finding things out using a wide range of secondary sources. • planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary • taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate • recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs • using test results to make predictions to set up further comparative and fair tests • reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
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	<ul style="list-style-type: none"> identifying scientific evidence that has been used to support or refute ideas or arguments. 	<ul style="list-style-type: none"> identifying scientific evidence that has been used to support or refute ideas or arguments 	<p>increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</p> <ul style="list-style-type: none"> using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations identifying scientific evidence that has been used to support or refute ideas or arguments. 	<p>increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</p> <ul style="list-style-type: none"> using test results to make predictions to set up further comparative and fair tests reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations identifying scientific evidence that has been used to support or refute ideas or arguments. 	<ul style="list-style-type: none"> identifying scientific evidence that has been used to support or refute ideas or arguments.
<p>Enquiry types Red= that enquiry type MUST be done</p>	<ul style="list-style-type: none"> observing changes over different periods of time, noticing patterns, grouping and classifying things, carrying out comparative and fair tests 	<ul style="list-style-type: none"> observing changes over different periods of time, noticing patterns, grouping and classifying things, carrying out comparative and fair tests 	<ul style="list-style-type: none"> observing changes over different periods of time, noticing patterns, grouping and classifying things, 	<ul style="list-style-type: none"> observing changes over different periods of time, noticing patterns, grouping and classifying things, 	<ul style="list-style-type: none"> observing changes over different periods of time, noticing patterns, grouping and classifying things,

<p>linked to the subject knowledge aspect but the other enquiry types can be chosen to suit investigations</p>	<ul style="list-style-type: none"> and finding things out using a wide range of secondary sources. 	<ul style="list-style-type: none"> and finding things out using a wide range of secondary sources 	<ul style="list-style-type: none"> carrying out comparative and fair tests and finding things out using a wide range of secondary sources 	<ul style="list-style-type: none"> carrying out comparative and fair tests and finding things out using a wide range of secondary sources 	<ul style="list-style-type: none"> carrying out comparative and fair tests and finding things out using a wide range of secondary sources
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<p>WS ongoing</p>	<ul style="list-style-type: none"> Ask their own questions about scientific phenomena Draw conclusions based on their data and observations, use evidence to justify their ideas, and use their scientific knowledge and understanding to explain their findings.
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- planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
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- using test results to make predictions to set up further comparative and fair tests
- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations
- identifying scientific evidence that has been used to support or refute ideas or arguments.