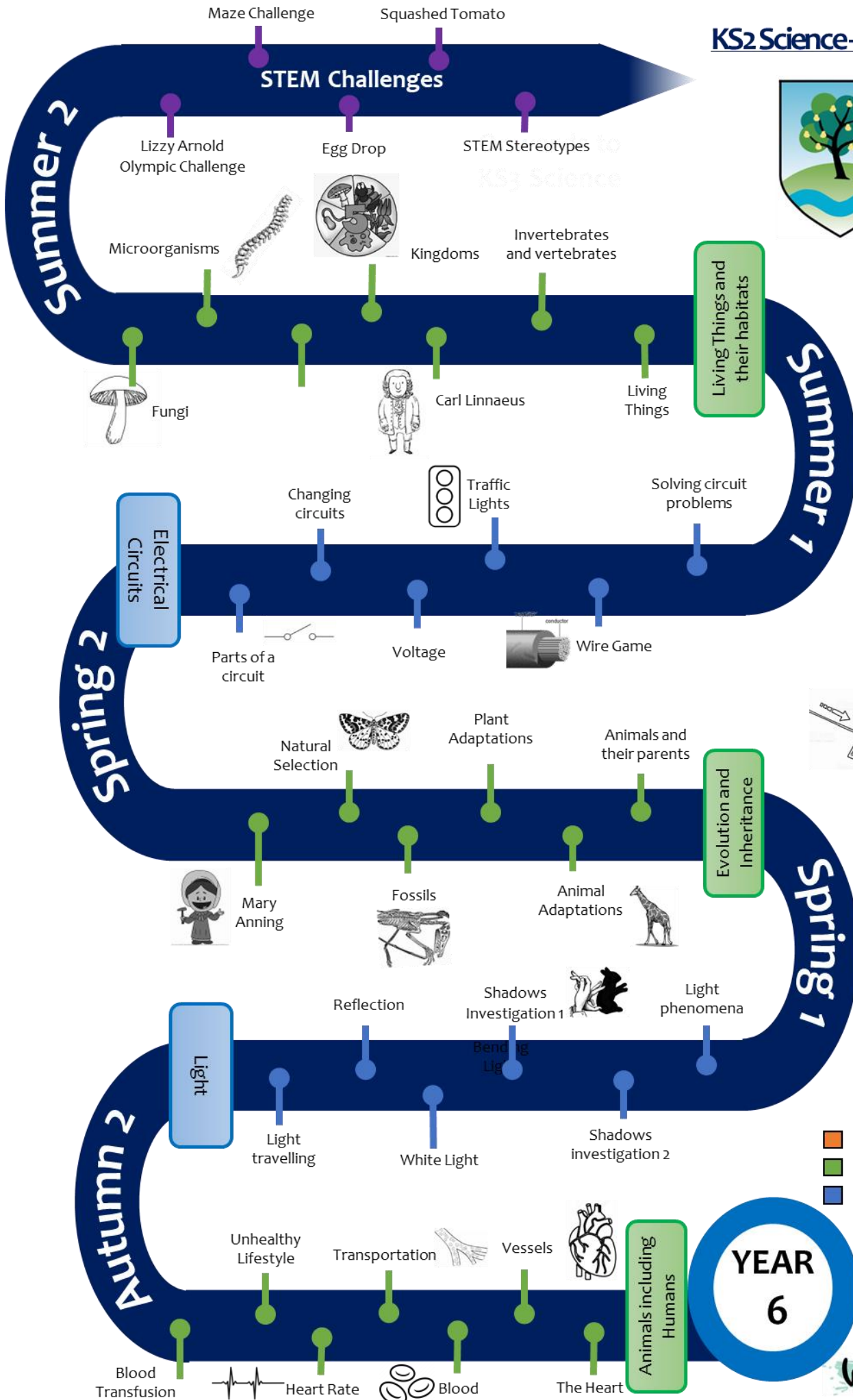


Year 6 Learning Journal – Science 2023-24

	Animals Including Humans	Light	Evolution & Inheritance	Electricity	Classifying Living Organisms	End of Year Target
Mastery						Mastery
%						
Secure						Secure
%						
Developing						Developing
%						
Emerging						Emerging
%						

Term	Progress	Topic	Experiment Skills
Autumn	What are you most confident with?		<input type="checkbox"/> Predicting <input type="checkbox"/> Listing equipment <input type="checkbox"/> Writing a method <input type="checkbox"/> Results Table
	What do you need to develop?		<input type="checkbox"/> Predicting <input type="checkbox"/> Listing equipment <input type="checkbox"/> Writing a method <input type="checkbox"/> Showing results in a table or graph <input type="checkbox"/> Describing results <input type="checkbox"/> Writing a conclusion <input type="checkbox"/> Suggesting improvements (Evaluation)
Spring	What are you most confident with?		<input type="checkbox"/> Predicting <input type="checkbox"/> Listing equipment <input type="checkbox"/> Writing a method <input type="checkbox"/> Showing results in a table or graph <input type="checkbox"/> Describing results <input type="checkbox"/> Writing a conclusion <input type="checkbox"/> Suggesting improvements (Evaluation)
	What do you need to develop?		<input type="checkbox"/> Predicting <input type="checkbox"/> Listing equipment <input type="checkbox"/> Writing a method <input type="checkbox"/> Showing results in a table or graph <input type="checkbox"/> Describing results <input type="checkbox"/> Writing a conclusion <input type="checkbox"/> Suggesting improvements (Evaluation)
Summer	What are you most confident with?		<input type="checkbox"/> Predicting <input type="checkbox"/> Listing equipment <input type="checkbox"/> Writing a method <input type="checkbox"/> Showing results in a table or graph <input type="checkbox"/> Describing results <input type="checkbox"/> Writing a conclusion <input type="checkbox"/> Suggesting improvements (Evaluation)
	What do you need to develop?		<input type="checkbox"/> Predicting <input type="checkbox"/> Listing equipment <input type="checkbox"/> Writing a method <input type="checkbox"/> Showing results in a table or graph <input type="checkbox"/> Describing results <input type="checkbox"/> Writing a conclusion <input type="checkbox"/> Suggesting improvements (Evaluation)

	Emerging	Developing	Secure	Mastery
Animals Including Human	<p>Identify the heart from body organs</p> <p>Name the main parts of the human circulatory system</p> <p>Define the uses of different drugs</p>	<p>State the function of the heart</p> <p>Define the function of different blood vessels</p> <p>Describe the impact of drugs/alcohol on health</p>	<p>Describe the functions of the heart, blood vessels and blood</p> <p>Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function</p> <p>Describe how nutrients and water are transported within animals, including humans.</p>	<p>Describe how blood moves around the heart</p> <p>Explain issues surrounding restricted arteries</p> <p>Explain how lifestyle choices can affect health and suggest improvements</p>
Light	<p>State that light appears to travel in straight lines</p> <p>Recall light is reflected off surfaces so that we can see it</p> <p>Recall that shadows can change</p> <p>Describe how to create a shadow</p>	<p>Annotate a diagram to represent light</p> <p>Define reflection</p> <p>Describe how a periscope works</p> <p>Describe how a shadow can change shape</p>	<p>Draw a diagram to represent light</p> <p>Define reflection using examples</p> <p>Describe how a periscope works and represent in a diagram</p> <p>Conduct an experiment to investigate shadow changes</p>	<p>Draw a diagram to represent light</p> <p>Explain the difference between regular and irregular reflection</p> <p>Explain how reflection can be used to help us see, giving examples</p> <p>Design an experiment to investigate shadow changes</p>
Evolution and Inheritance	<p>State some inherited characteristics</p> <p>State characteristics of a camel that help it survive</p> <p>Suggest adaptations of a cactus or simple plant</p> <p>Define Extinct</p> <p>Identify how living things have changed over time</p>	<p>Sort characteristics into inherited or environmental characteristics</p> <p>Describe an organism's adaptation that help it to survive in the habitat</p> <p>Describe the purpose of a fossil</p> <p>Define natural selection</p>	<p>Suggest why offspring look similar but not identical to their parents</p> <p>Explain how an organism's adaptation helps it to survive in the habitat</p> <p>Use evidence from fossils to suggest some conclusions about life in the past</p> <p>Describe how natural selection causes living things to evolve over time</p>	<p>Compare inherited and environmental characteristics</p> <p>Predict how an organism would have to adapt to suit a different habitat</p> <p>Use evidence from fossils, compare extinct animals with those that are living</p> <p>Explain why the theory of evolution was not accepted at first</p>
Electricity	<p>Identify components from their symbol</p> <p>Use a voltmeter to measure voltage, with support</p> <p>Identify problems in a circuit</p> <p>Create a simple circuit that can turn on lights, with support</p>	<p>Identify components from their symbol and definitions</p> <p>Use a voltmeter to measure voltage independently</p> <p>Identify problems in a circuit</p> <p>Create a simple circuit that can turn on lights</p>	<p>Describe how the brightness of a bulb is affected by the voltage/number of cells in the circuit</p> <p>Describe problems in a circuit</p> <p>Recognise materials which are insulators and materials which are conductors</p> <p>Describe the effects on components from use of a variable resistor; a bulb is brighter or dimmer, a buzzer is louder or softer</p>	<p>Explain how the brightness of a bulb is affected by the voltage/number of cells in the circuit</p> <p>Explain how to fix issues in a circuit</p> <p>Compare the results and the output of their circuit by changing the connections and recording effects</p> <p>Explain why an individual component's output is affected by turning a variable resistor</p>
Classifying Living Organisms	<p>State different types of living things</p> <p>Recall some kingdoms of life</p> <p>Name some groups of classification</p> <p>Define "Vertebrates"</p>	<p>Name the six kingdoms of life</p> <p>Name the groups of classification</p> <p>Identify the different types of vertebrates</p>	<p>Describe the differences between the six kingdoms of life</p> <p>Identify living things belonging to each group by their characteristics</p> <p>Describes some different vertebrates and gives information that helps to help classify them</p>	<p>Explain the common characteristics that all living things share</p> <p>Explain how to identify and classify living things, identifying the differences between the groups</p> <p>Explain why vertebrates are classified into certain groups</p>



Electrical Circuits

Spring 2

Summer 1

Autumn 2

Spring 1

YEAR 6

- = Physics
- = Biology
- = Chemistry

Animals including Humans

Living Things and their habitats

Evolution and Inheritance

Light

Unhealthy Lifestyle

Transportation

Vessels

Blood Transfusion

Heart Rate

Blood

The Heart

Fungi

Microorganisms

Kingdoms

Invertebrates and vertebrates

Living Things

Carl Linnaeus

Changing circuits

Traffic Lights

Solving circuit problems

Parts of a circuit

Voltage

Wire Game

Natural Selection

Plant Adaptations

Animals and their parents

Mary Anning

Fossils

Animal Adaptations

Reflection

Shadows Investigation 1

Light phenomena

Light travelling

White Light

Shadows investigation 2

YEAR 6

welcome