

# Leintwardine Endowed CE Primary School Learning Journey Itinerary

‘Letting Our Light Shine’

SUBJECT : Science	YEAR : B	TERM : Autumn 2	YEAR GROUPS : 5/6
-------------------	----------	-----------------	-------------------

## Key Question: How do we keep our hearts healthy?

Previous Knowledge – We would expect children to already be able to:  
 Chn will know that the heart pumps blood around the body and that our hearts beat more quickly when we exercise. They will know what is included in a balance diet.

### END OF UNIT OBJECTIVES

Some children will not yet have met what is expected and will show that they are <b>emerging</b> because they can:	Most children will show that they have reached the <b>expected</b> level because they can:	Some children will have gone beyond the expected level and will show that they are <b>exceeding</b> because they can:
<p>...with support, state the three main parts of the circulatory system and say at least one job that the heart does.</p> <p>...with support, describe the important jobs of the blood vessels and blood.</p> <p>...with support, discuss how heart rate is affected by exercise.</p> <p>...with support, understand that regular exercise is important for a healthy body.</p> <p>...with support, discuss how diet and exercise affect the body.</p> <p>...with support, discuss the impact of drugs and lifestyle on the way bodies function.</p> <p>...with support, identify scientific evidence that has been used to support or refute ideas or arguments.</p> <p>...with support, plan different types of scientific enquiries to answer questions, including recognising and controlling variables; record data and results using keys, tables and graphs; report findings from enquiries.</p>	<p>...state the three main parts of the circulatory system and describe the job of the heart.</p> <p>...describe the important jobs of the blood vessels and blood.</p> <p>...discuss how heart rate is affected by exercise.</p> <p>...understand that regular exercise is important for a healthy body.</p> <p>...discuss how diet and exercise affect the body.</p> <p>...discuss the impact of drugs and lifestyle on the way bodies function.</p> <p>...identify scientific evidence that has been used to support or refute ideas or arguments.</p> <p>...plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary; record data and results of increasing complexity using classification keys, tables, scatter graphs, bar and line graphs; report findings from enquiries, including conclusions and degree of trust in results, in written forms by reporting and presenting the findings of their enquiry.</p> <p>...record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.</p>	<p>...confidently discuss the three parts of the circulatory system and understand the jobs that the heart does, naming each of the chambers accurately.</p> <p>...confidently describe the important jobs of the blood vessels and blood and explain the different aspects of their blood model.</p> <p>...confidently discuss how heart rate is affected by exercise, and the difference different forms of exercise have on the heart.</p> <p>...confidently discuss and understand that regular exercise is important for a healthy body.</p> <p>...confidently discuss how diet and exercise affect the body, being able to give recommendations for best practice.</p> <p>...confidently discuss the impact of drugs and lifestyle on the way bodies function, and the different affects various drugs have on the body.</p> <p>...confidently identify scientific evidence that has been used to support or refute ideas or arguments.</p> <p>...independently plan different types of scientific enquiries to answer questions, including recognising and controlling variables; record data and results of increasing complexity accurately using classification keys, tables, scatter graphs, bar and line graphs; report findings from enquiries, including conclusions and degree of trust in results, in written forms by reporting and presenting the findings of their enquiry.</p> <p>...confidently and independently record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.</p>

### ASSESSMENT OPPORTUNITIES

Children’s work will be monitored for understanding throughout the unit. At all times, children will be encouraged to ask questions that will aid their understanding and address misconceptions.

ENRICHMENT OPPORTUNITIES	SUBJECT SPECIFIC VOCABULARY	CROSS-CURRICULAR LINKS
<p><b>Helping children to remember more</b></p> <p>Children will monitor their heart rate during a PE lesson to demonstrate how it fluctuates.</p> <p>Children will see a real heart (purchased from the butchers).</p>	<p>Circulatory system, heart, ventricle, atrium, blood vessel, oxygenated blood, deoxygenated blood, arteries, circulation, capillaries, veins, plasma, platelets, red blood cells, white blood cells, oxygen, carbon dioxide, nutrients, drugs, alcohol, kilocalorie, calorie.</p>	<p><b>Links that we can make to help children make sense of what we want them to know and be able to do.</b></p> <p>Maths – presenting data</p> <p>English – writing up experiments and a persuasive argument.</p>