



## Learning Journey – 9B Systems – The Nervous System

What have I done previously in my learning journey?	
<b>Previously....</b>	You have not previously learnt about the nervous system; however, you have learnt about other systems in the human body including: <ul style="list-style-type: none"> <li>The digestive system</li> <li>The skeletal system</li> <li>The respiratory system</li> <li>The reproductive system</li> </ul>
<b>In this topic...</b>	You will learn about the nervous system. This will include: <ul style="list-style-type: none"> <li>The function of the nervous system</li> <li>How information passes through the nervous system</li> <li>What a reflex action is</li> <li>Why reflex actions are important.</li> <li>How features of the nervous system are adapted to their function</li> </ul>

We will develop our learning by studying the following each lesson:	RAG	Skills in Science checklist
<b>9B.22 The Nervous System</b> <ul style="list-style-type: none"> <li>State the function of the nervous system.</li> <li>Describe how information passes through the nervous system</li> </ul>		<input type="checkbox"/> Scientific Methods <input type="checkbox"/> Practical <input type="checkbox"/> Number skills <input type="checkbox"/> Application <input type="checkbox"/> Communication
<b>9B.23 Reflex Actions</b> <ul style="list-style-type: none"> <li>Describe a reflex action.</li> <li>State why reflex actions are important.</li> <li>Explain how features of the nervous system are adapted to their function</li> </ul>		<input type="checkbox"/> Scientific Methods <input type="checkbox"/> Practical <input type="checkbox"/> Number skills <input type="checkbox"/> Application <input type="checkbox"/> Communication

Key Vocabulary								
Nervous system	Nerves	Neurons	CNS	Sensory	Motor	Effector	Myelin sheath	Axon
Dendrite	Reflec arc							

<b>Future Learning</b>	At KS4, you will continue to learn about the nervous system, specifically: <ul style="list-style-type: none"> <li>Principles of nervous coordination and control in humans</li> <li>The relationship between the structure and function of the human nervous system</li> </ul>
<b>In careers</b>	<p>There are many career opportunities within the field of neuroscience. Neuroscience is the science of the brain and the nervous system. Some career options include:</p> <ul style="list-style-type: none"> <li><b>Laboratory technician:</b> Lab technicians who work with other neuroscience specialists may prepare tumour or nerve samples for experiments, analyse the results of their work, and prepare in-depth reports. Average salary is around £21,000 per year.</li> <li><b>Research assistant:</b> search assistants (RAs) perform a variety of duties within research setting that may include collecting and interpreting data, creating presentations, and reviewing research-related resources. Average salary is around £28,000 per year.</li> <li><b>Physical therapist:</b> Physical therapists treat patients through conducting physical examinations, observing patient movement, and developing individual treatment plans to help patients eliminate movement dysfunctions. They help patients with injuries or chronic health conditions. Average salary is around £32,000 per year.</li> <li><b>Prosthetist:</b> A prosthetist specialises in designing and producing adaptive equipment for patients after injuries or with disabilities. They help patients regain mobility by fitting them with artificial limbs, known as prostheses. Average salary is around £35,000 per year.</li> <li><b>Chiropractor:</b> Chiropractors focus on helping patients manage pain and correct their body alignment or physical function without medicine or surgery. Average salary is around £36,000 per year.</li> <li><b>Clinical psychologist:</b> A clinical psychologist is a mental health medical specialist who helps patients identify, cope with, and manage emotional, behavioural, and psychological issues or disorders. It is also common for them to prepare neurological patients for surgeries by offering them psychological support and taking care of them during post-op. Average salary is around £48,000 per year.</li> <li><b>Neurologist:</b> A neurologist is a medical doctor who specialises in the diagnosis and treatment of neurological disorders that impact the brain, spine, muscles, or other elements of the nervous system. Average salary is around £61,000 per year.</li> </ul>



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