



<p><b>This unit I will be learning about feedback and control</b></p>	<p><b>The key words I will learn this unit are...</b></p>	
<p><b>This unit I am learning:</b></p> <ul style="list-style-type: none"> <li>The role of enzymes</li> <li>The structure of the nervous system</li> <li>Examples of hormones and their effect on the body</li> <li>The 2 types of diabetes</li> </ul> <p><b>By the end of this unit I will be able to:</b></p> <ul style="list-style-type: none"> <li>Describe the lock and key hypothesis of enzymes</li> <li>Investigate factors that affect enzyme function</li> <li>Describe the structure and role of the nervous system</li> <li>Recall the stages in a reflex arc</li> <li>Identify hormones in the body and describe their action</li> <li>Describe how the body regulates sugar levels</li> <li>Compare the 2 types of diabetes including treatment</li> </ul>	<p>Catalyst Enzyme Substrate Product Active site Denature Neurone Axon Myelin sheath Dendrite Sensory Motor Relay autonomic</p>	<p>Endocrine Gland Adrenaline Pituitary Insulin Glucagon Pancreas Liver Thyroxine Metabolism Diabetes Obesity</p>

<p><b>Week's Learning</b></p>	<p><b>Literacy Links</b></p>	<p><b>100% Sheet Homework</b></p>
<p><b>Week 1</b></p> <ul style="list-style-type: none"> <li>Describe the action of enzymes using the lock and key hypothesis</li> <li>Explain the importance of enzymes as biological catalysts in the synthesis of carbohydrates, proteins and fats</li> <li>Explain how different factors, affect enzyme function referring to lock and key hypothesis</li> <li>Demonstrate an understanding of rate calculations for enzyme activity</li> <li>Investigate the effect of p H on enzyme activity</li> <li>Describe the role of the nervous system</li> <li>Suggest the implications of neurones becoming damaged</li> </ul>	<p><b>I will use these literacy skills...</b></p> <p>Practical write up for investigating the effect of p H on enzymes</p>	<p><b>I will complete this home learning...</b></p> <p>MCQs</p>
<p><b>Week 2</b></p> <ul style="list-style-type: none"> <li>Explain the structure and function of the reflex arc</li> <li>Describe the structure of different neurones</li> <li>Suggest the implications of the reflex arc function being affected by different factors</li> <li>Investigate reaction times</li> <li>Diagnose my strengths and weaknesses in this unit so far</li> </ul>	<p>Reflex arc exam Qs</p>	<p>Spelling test</p>
<p><b>Week 3</b></p> <ul style="list-style-type: none"> <li>Identify organs of the endocrine system</li> <li>Describe the role of different hormones</li> <li>Compare the function of the endocrine system to the nervous system</li> <li>Explain the function of the adrenal system</li> <li>Explain the importance of adrenaline in the fight or flight response</li> <li>Explain the function of thyroxine in controlling metabolism as an example of negative feedback</li> <li>Define homeostasis</li> <li>Explain the importance of homeostasis using glucoregulation as an example</li> <li>Discuss the importance of negative feedback in glucoregulation</li> </ul>	<p>Glucoregulation exam Qs</p>	<p>Exam Qs</p>

<p><b>Week 4</b></p> <ul style="list-style-type: none"> <li>• Compare the causes and effects of Type 1 and Type 2 diabetes</li> <li>• Describe the causes of type 1 and type 2 diabetes</li> <li>• Compare the treatments for type 1 and type 2 diabetes</li> <li>• Evaluate the correlation between BMI / waist:hip and type 2 diabetes</li> <li>• Revision</li> <li>• End of Unit assessment</li> </ul>	<p>Comapring type 1 to type 2 diabetes</p>	
<p><b>Resources to support:</b>  <a href="http://www.bbc.co.uk/bitesize">www.bbc.co.uk/bitesize</a>  <a href="http://www.getrevising.com">www.getrevising.com</a></p>		
<p>Social, Moral, Spiritual, Cultural and British Values linked to this learning programme:  Evaluate the correlation between BMI / waist:hip and type 2 diabetes and discuss the treatments for diabetes. Students will consider the effects of injury on the nervous system</p>		
<p><b>Assessment: All students will complete at least 1 diagnostically marked 6-mark exam question on Natural Selection</b></p>		