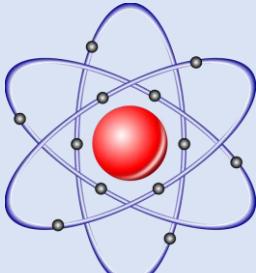


# WALTON HIGH SCHOOL – Year 7 CURRICULUM OVERVIEW FOR BIOLOGY

Half Term 1	Half Term 2	Half Term 3	Half Term 4
<p><b>Cell Biology</b>  <i>How are Plant Cells Different to Animal Cells Under the Microscope?</i></p> <p><b>Students learn...</b></p> <ul style="list-style-type: none"> <li>How to view objects under the microscope.</li> <li>The differences between plant and animal cells.</li> <li>The adaptations of specialised animal and plant cells.</li> <li>The features of unicellular organisms.</li> </ul> <p><a href="#">HT1 Curriculum Booklet</a></p>	<p><b>Photosynthesis and Plant Physiology</b>  <i>How do Plants Make Glucose Using Photosynthesis?</i></p> <p><b>Students learn...</b></p> <ul style="list-style-type: none"> <li>The reactants and products of photosynthesis.</li> <li>The structure of the leaf.</li> </ul> <p><b>Ecology</b>  <i>How does Energy Flow through Ecosystems?</i></p> <p><b>Students learn...</b></p> <ul style="list-style-type: none"> <li>The relationships between organisms in food chains and webs.</li> <li>How food chains can become disrupted through human activity.</li> </ul> <p><a href="#">HT2 Curriculum Booklet</a></p>	<p><b>Human Physiology</b>  <i>How do Muscles Help us Move and Breathe?</i></p> <p><b>Students learn...</b></p> <ul style="list-style-type: none"> <li>The structure of the human skeleton and different types of joint.</li> <li>How muscles enable movement.</li> <li>The structure of the respiratory system.</li> <li>The mechanism of breathing.</li> </ul> <p><b>Photosynthesis and Plant Physiology</b>  <i>How do Plants Spread their Seeds?</i></p> <p><b>Students learn...</b></p> <ul style="list-style-type: none"> <li>How plants reproduce and spread their seeds.</li> </ul> <p><a href="#">HT3 Curriculum Booklet</a></p>	<p><b>Human Physiology</b>  <i>How do Humans Make New Life?</i></p> <p><b>Students learn...</b></p> <ul style="list-style-type: none"> <li>What happens during puberty.</li> <li>The structure of male and female reproductive organs.</li> <li>How sexual intercourse can make a baby.</li> <li>How a baby grows during pregnancy.</li> <li>What happens during birth.</li> </ul> <p><b>Health and Disease</b>  <i>How can we Prevent a Pregnancy?</i></p> <p><b>Students learn...</b></p> <ul style="list-style-type: none"> <li>How contraception can prevent a pregnancy and transmission of STDs.</li> </ul>
<p><b>Want to know more?</b></p> <ul style="list-style-type: none"> <li><a href="#">HT1 Essential Knowledge</a></li> <li><a href="#">HT1 Essential Skills</a></li> <li><a href="#">HT1 Essential Vocabulary</a></li> <li><a href="#">HT1 Knowledge Organiser</a></li> <li><a href="#">HT1 Home Learning Resources</a></li> <li><a href="#">HT1 Podcast HT1 Revision Video</a></li> </ul>	<p><b>Want to know more?</b></p> <ul style="list-style-type: none"> <li><a href="#">HT2 Essential Knowledge</a></li> <li><a href="#">HT2 Essential Skills</a></li> <li><a href="#">HT2 Essential Vocabulary</a></li> <li><a href="#">HT2 Knowledge Organiser</a></li> <li><a href="#">HT2 Home Learning Resources</a></li> <li><a href="#">HT2 Podcast HT1 Revision Video</a></li> </ul>	<p><b>Want to know more?</b></p> <ul style="list-style-type: none"> <li><a href="#">HT3 Essential Knowledge</a></li> <li><a href="#">HT3 Essential Skills</a></li> <li><a href="#">HT3 Essential Vocabulary</a></li> <li><a href="#">HT3 Knowledge Organiser</a></li> <li><a href="#">HT3 Home Learning Resources</a></li> <li><a href="#">HT3 Podcast HT1 Revision Video</a></li> </ul>	<p><b>Want to know more?</b></p> <ul style="list-style-type: none"> <li><a href="#">HT4 Essential Knowledge</a></li> <li><a href="#">HT4 Essential Skills</a></li> <li><a href="#">HT4 Essential Vocabulary</a></li> <li><a href="#">HT4 Knowledge Organiser</a></li> <li><a href="#">HT4 Home Learning Resources</a></li> <li><a href="#">HT4 Podcast HT1 Revision Video</a></li> </ul>

# WALTON HIGH SCHOOL – Year 7 CURRICULUM OVERVIEW FOR **CHEMISTRY**

Half Term 1	Half Term 2	Half Term 3	Half Term 4
<p><b>Elements and Compounds</b>  <i>How are particles arranged in Solids, Liquids and Gases?</i></p> <p><b>Lesson 1</b>  <i>Solids Liquids and Gases</i></p> <p><b>Lesson 2</b>  <i>Modelling Solids, Liquids and Gases</i></p> <p><b>Lesson 3</b>  <i>Compounds</i></p> <p><b>Lesson 4</b>  <i>Mixtures</i></p> <p><b>Lesson 5</b>  <i>Diffusion and Pressure</i></p> <p><a href="#"><b>HT1 Curriculum Booklet</b></a></p> 	<p><b>Elements and Compounds</b>  <i>How can we Separate Mixtures?</i></p> <p><b>Lesson 1</b>  <i>Solutions</i></p> <p><b>Chemical Change</b></p> <p><b>Lesson 2</b>  <i>Investigating Reactions</i></p> <p><b>Lesson 3</b>  <i>Scientific Experiment</i></p> <p><b>Quantitative Analysis</b></p> <p><b>Lesson 4</b>  <i>Chromatography</i></p> <p><b>Lesson 5</b>  <i>Forensic Science Investigation</i></p> <p><b>Lesson 6</b>  <i>Distillation</i></p> <p><a href="#"><b>HT2 Curriculum Booklet</b></a></p>	<p><b>Earth's Resources</b>  <i>What is the Rock Cycle?</i></p> <p><b>Lesson 1</b>  <i>The structure of Earth</i></p> <p><b>Lesson 2</b>  <i>Weathering</i></p> <p><b>Lesson 3</b>  <i>Types of Rock</i></p> <p><b>Lesson 4</b>  <i>The Rock Cycle</i></p> <p><b>Element and Compounds</b>  <i>How can we use Separation Techniques to obtain Salt from Rock Salt?</i></p> <p><b>Lesson 5</b>  <i>Separating rock salt</i></p> <p><a href="#"><b>HT3 Curriculum Booklet</b></a></p> 	<p><b>Earth's Resources</b>  <i>How are Humans Impacting Our Atmosphere?</i></p> <p><b>Lesson 1</b>  <i>Atmospheric Gases</i></p> <p><b>Lesson 2</b>  <i>Global Warming</i></p> <p><b>Lesson 3</b>  <i>Reduce, Reuse, Recycle</i></p> <p><b>Lesson 4</b>  <i>The Carbon Cycle</i></p> <p><b>Lesson 5</b>  <i>The Water Cycle</i></p> <p><a href="#"><b>HT4 Curriculum Booklet</b></a></p> 
<p><b>Want to know more?</b></p> <ul style="list-style-type: none"> <li><a href="#">HT1 Essential Knowledge</a></li> <li><a href="#">HT1 Essential Skills</a></li> <li><a href="#">HT1 Essential Vocabulary</a></li> <li><a href="#">HT1 Knowledge Organiser</a></li> <li><a href="#">HT1 Home Learning Resources</a></li> <li><a href="#">HT1 Revision Video and Podcast</a></li> </ul>	<p><b>Want to know more?</b></p> <ul style="list-style-type: none"> <li><a href="#">HT2 Essential Knowledge</a></li> <li><a href="#">HT2 Essential Skills</a></li> <li><a href="#">HT2 Essential Vocabulary</a></li> <li><a href="#">HT2 Knowledge Organiser</a></li> <li><a href="#">HT2 Home Learning Resources</a></li> <li><a href="#">HT2 Revision Video</a></li> </ul>	<p><b>Want to know more?</b></p> <ul style="list-style-type: none"> <li><a href="#">HT3 Essential Knowledge</a></li> <li><a href="#">HT3 Essential Skills</a></li> <li><a href="#">HT3 Essential Vocabulary</a></li> <li><a href="#">HT3 Knowledge Organiser</a></li> <li><a href="#">HT3 Home Learning Resources</a></li> <li><a href="#">HT3 Revision Video</a></li> </ul>	<p><b>Want to know more?</b></p> <ul style="list-style-type: none"> <li><a href="#">HT4 Essential Knowledge</a></li> <li><a href="#">HT4 Essential Skills</a></li> <li><a href="#">HT4 Essential Vocabulary</a></li> <li><a href="#">HT4 Knowledge Organiser</a></li> <li><a href="#">HT4 Home Learning Resources</a></li> </ul>

# WALTON HIGH SCHOOL – Year 7 CURRICULUM OVERVIEW FOR PHYSICS

Half Term 1	Half Term 2	Half Term 3	Half Term 4
<p><b>Energy</b> What are the 9 Types of Energy?</p> <p><b>Lesson 1</b> <i>Types of Energy</i></p> <p><b>Lesson 2</b> <i>Energy Transfers</i></p> <p><b>Lesson 3</b> <i>Gravitational and Kinetic energy</i></p> <p><b>Lesson 4</b> <i>Thermal Conduction</i></p> <p><b>Lesson 5</b> <i>Convection and Radiation</i></p> <p><b>Lesson 6</b> <i>Energy Resources for Electricity</i></p> <p><b>Lesson 7</b> <i>Food and Fuel</i></p> <p><a href="#">HT1 Curriculum Booklet</a></p>	<p><b>Forces</b> What are Forces and their Effects?</p> <p><b>Lesson 1</b> <i>Introduction to Forces</i></p> <p><b>Lesson 2</b> <i>Force Diagrams and Resultant Forces</i></p> <p><b>Lesson 3</b> <i>Friction</i></p> <p><b>Lesson 4</b> <i>Balance and Unbalanced Forces</i></p> <p><b>Lesson 5</b> <i>Pressure, Floating and Sinking</i></p> <p><a href="#">HT2 Curriculum Booklet</a></p>	<p><b>Sound</b> How do Waves Transfer Sound Energy?</p> <p><b>Lesson 1</b> <i>Introduction to Waves</i></p> <p><b>Lesson 2</b> <i>Sound and the Ear</i></p> <p><b>Lesson 3</b> <i>Speed of Sound</i></p> <p><b>Lesson 4</b> <i>Sound and Ultrasound</i></p> <p><b>Lesson 5</b> <i>Waves</i></p> <p><a href="#">HT3 Curriculum Booklet</a></p>	<p><b>Electricity</b> How Does Current relate to Resistance?</p> <p><b>Lesson 1</b> <i>Static Electricity</i></p> <p><b>Lesson 2</b> <i>Circuit Symbols and Diagrams</i></p> <p><b>Lesson 3</b> <i>Series and Parallel Circuits</i></p> <p><b>Lesson 4</b> <i>Ohm's Law</i></p> <p><b>Lesson 5</b> <i>Resistance</i></p> <p><b>Lesson 6</b> <i>Generating Electricity</i></p> <p><a href="#">HT3 Curriculum Booklet</a></p>

| Want to know more?  |
|---|---|---|---|
| <ul style="list-style-type: none"> <li><a href="#">HT1 Essential Knowledge</a></li> <li><a href="#">HT1 Essential Skills</a></li> <li><a href="#">HT1 Essential Vocabulary</a></li> <li><a href="#">HT1 Knowledge Organiser</a></li> <li><a href="#">HT1 Home Learning Resources</a></li> </ul> | <ul style="list-style-type: none"> <li><a href="#">HT2 Essential Knowledge</a></li> <li><a href="#">HT2 Essential Skills</a></li> <li><a href="#">HT2 Essential Vocabulary</a></li> <li><a href="#">HT2 Knowledge Organiser</a></li> <li><a href="#">HT2 Home Learning Resources</a></li> </ul> | <ul style="list-style-type: none"> <li><a href="#">HT3 Essential Knowledge</a></li> <li><a href="#">HT3 Essential Skills</a></li> <li><a href="#">HT3 Essential Vocabulary</a></li> <li><a href="#">HT3 Knowledge Organiser</a></li> <li><a href="#">HT3 Home Learning Resources</a></li> </ul> | <ul style="list-style-type: none"> <li><a href="#">HT4 Essential Knowledge</a></li> <li><a href="#">HT4 Essential Skills</a></li> <li><a href="#">HT4 Essential Vocabulary</a></li> <li><a href="#">HT4 Knowledge Organiser</a></li> <li><a href="#">HT4 Home Learning Resources</a></li> </ul> |