

## Science: Y10 Exam Topic Checklist

Topic BIOLOGY (HIGHER)	Class Notes	RAG	Revised
<b>Topic 1: B1 Core Biology Concepts</b>			
• Adaptations of the root hair cell			
• Osmosis			
• Microscope Calculations			
<b>Topic 2: B7 Homeostasis</b>			
• Menstrual cycle			
<b>Topic 3: B8 Exchange and transport of materials</b>			
• Gas exchange in lungs			
• Components of blood			
<b>Topic 4: B9 Ecosystems</b>			
• Sampling techniques			
• Abiotic Factors			
• Parasites and mutualists			
• Nitrogen cycle			
• Carbon cycle			
<b>Topic 5: Key Skills</b>			
• Percentage calculations			
• Unit conversions			

## Science: Y10 Exam Topic Checklist

Topic PHYSICS (HIGHER)	Class Notes	RAG	Revised
<b>Topic 1: P9 Electricity</b>			
• Circuits and resistance			
• Efficiency			
• Electrical power			
• Charge			
<b>Topic 2: P10 Magnetism</b>			
• Magnetic fields			

<ul style="list-style-type: none"> <li>• Magnetic flux density</li> </ul>			
<b>Topic 3: P13 Particle Model</b>			
<ul style="list-style-type: none"> <li>• Specific latent heat</li> </ul>			
<ul style="list-style-type: none"> <li>• Specific heat capacity</li> </ul>			
<ul style="list-style-type: none"> <li>• Gas pressure</li> </ul>			
<ul style="list-style-type: none"> <li>• Density</li> </ul>			
<b>Topic 4: P2 Forces &amp; Motion</b>			
<ul style="list-style-type: none"> <li>• Momentum</li> </ul>			
<b>Topic 5: P3 Energy</b>			
<ul style="list-style-type: none"> <li>• Kinetic energy</li> </ul>			
<ul style="list-style-type: none"> <li>• Work done</li> </ul>			

Many of these topics will involve calculations linked to these topics

Topic BIOLOGY (FOUNDATION)	Class Notes	RAG	Revised
<b>Topic 1: B1 Core Biology Concepts</b>			
• Microscope Calculations			
<b>Topic 2: B6 Plants</b>			
• Experiments on rate of photosynthesis			
<b>Topic 3: B7 Homeostasis</b>			
• Contraception			
• Hormones of the menstrual cycle			
<b>Topic 4: B8 Exchange and transport of materials</b>			
• Blood vessels			
• Heart			
• Respiration - aerobic and anaerobic			
• Investigating respiration			
<b>Topic 5: B9 Ecosystems</b>			
• Eutrophication			
<b>Topic 6: Key Skills</b>			
• Drawing cell diagrams			
• Unit conversions			

### Science: Y10 Exam Topic Checklist

Topic PHYSICS (FOUNDATION)	Class Notes	RAG	Revised
<b>Topic 1: P9 Electricity</b>			
• Circuit diagrams			
• Efficiency			
• Electrical power			
• Charge			
• Electrical safety and fuses			
• Current and resistance in circuits			
<b>Topic 2: P10 Magnetism</b>			

<ul style="list-style-type: none"> <li>• Magnetic fields</li> </ul>			
<b>Topic 3: P11 Electromagnetic Induction</b>			
<ul style="list-style-type: none"> <li>• National grid</li> </ul>			
<ul style="list-style-type: none"> <li>• Transformer - function</li> </ul>			
<ul style="list-style-type: none"> <li>• Transformers and power calculations</li> </ul>			
<b>Topic 4: P13 Particle Model</b>			
<ul style="list-style-type: none"> <li>• States of matter</li> </ul>			
<ul style="list-style-type: none"> <li>• Specific heat capacity</li> </ul>			
<ul style="list-style-type: none"> <li>• Density</li> </ul>			
<ul style="list-style-type: none"> <li>• Absolute zero</li> </ul>			

Many of these topics will involve calculations linked to these topics