

## Year 9

**Complex Cells**  
Organelles  
Cell Specialisation  
Diffusion, Active  
Transport & Osmosis

**Respiration**  
Gas Exchange  
Aerobic & Anaerobic  
Respiration

**Evolution**  
Inheritance  
Variation  
DNA  
Extinction



Knowledge	Attributes / Character	Skills	Experiences
<p>Evolution Respiration Complex Cells</p>	<ul style="list-style-type: none"> <li>● Confidence - Students will apply their knowledge of respiration, the opposite of photosynthesis from year 8 and be able to show how complex cells form by building on knowledge from previous topics to include cells.</li> <li>● Organisation -Homework is set on a regular basis and helps reinforce the knowledge students have learnt, students need to ensure it is complete in</li> <li>● Resilience - Students are now relying on the foundation they built in previous years. This requires them to remember knowledge through retrieval practice in every lesson.</li> <li>● Empathy - students will examine the topic of evolution, which can contradict religious beliefs. A sensitive approach around understanding is required.</li> </ul>	<ul style="list-style-type: none"> <li>● Evaluate evolution theories</li> <li>● Identify cell adaptations</li> <li>● Evaluate methods</li> <li>● Produce written methods</li> <li>● Use correct headings and units in tables</li> <li>● Evaluate data from graphs and tables</li> <li>● Identify errors</li> <li>● Produce risk assessments</li> </ul>	<ul style="list-style-type: none"> <li>● Science club</li> <li>● Cadbury World visit</li> <li>● British Science Week</li> <li>● Science practicals</li> </ul>