

**Barnsley Academy – (Year 7 and Subject Biology - Cells) Curriculum**  
**Scheme of Work – 2023-24**

Term 1 – Week 2 or Week 5

	1	2	3
<b>Lesson Focus</b>	Plant + animal cells	Comparing Cells	Specialised cells
<b>Prerequisite Knowledge</b>		Lesson 5 – plant and animal cells	Lesson 5 – plant and animal cells
<b>Core Knowledge</b>	<p>Accurately label a plant + animal cell</p> <p>Describe the function of the organelles in plant + animal cells</p> <p>Describe how to use a microscope to view plant + animal cells in focus</p> <p>Calculate actual size from image and magnification</p>	<p>Compare plant and animal cells</p> <p>Explain those differences in terms of functions of the parts</p> <p>Use evidence to make a reasoned argument</p>	<p>Describe features of specialised cells, using key structures</p> <p>Describe specialisation to function in a range of animal and plant cells</p> <p>Explain how the specialised features enable the cell to carry out its function.</p>
<b>Expert Model /Guided Practice/Agreed Approach</b> (Procedural Knowledge)	Model calculating magnifications	Model comparisons Model how to reason plant or animal	Model RBC for IP1
<b>Independent Practice</b>	IP1 – label plant cell IP2 – label animal cell IP3 – give the functions of the main organelles IP4 – use microscopes IP5 – calculate real size of cells	IP1 – KPI label cells, fill in functions, similarities + differences IP2 – Euglena – plant or animal?	IP1 – label adaptations and link to functions IP2 – exam questions
<b>Assessment</b> (Informal/Formal)	Independent practice tasks Learning checks on WB Students to self- assess all tasks. Teacher to circulate and check for misconceptions.	Independent practice tasks – KPI incorporated. Learning checks on WB Students to self- assess all tasks. Teacher to circulate and check for misconceptions.	Independent practice tasks – EQ incorporated. Learning checks on WB Students to self- assess all tasks. Teacher to circulate and check for misconceptions.
<b>Resources</b>			
<b>Specific SEN(D)/EAL support</b>	LAP versions of IP 1 + 2		LAP version of IP1