

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

Term 1 – Week 3 or Week 7

	1	2	3	4
Lesson Focus	Plants as organisms	Animals as organisms	Digestive system	Respiratory System
Prerequisite Knowledge	Lesson 5 – plant + animal cells	Lesson 5 – plant + animal cells	Lesson 10 – animals as organisms Cells, tissues and organs	Lesson 10 – animals as organisms Cells, tissues and organs
Core Knowledge	Identify the organs of a plant and their functions; Name some of the tissues found in the leaf and describe their job Describe ways in which the leaf is adapted to do its job	Describe the organisation of multicellular organisms in terms of cells, tissues and organs Identify the major organ systems in the human body and describe their main functions Explain how the respiratory system is adapted to carry out its function	Describe how substances move in and out of cells by diffusion, giving examples Describe and explain factors that can affect the rate of diffusion Explain the importance of diffusion in living organisms	Label the parts of the respiratory system Describe the path oxygen takes into the blood Describe the adaptations of the lungs to allow efficient diffusion
Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge)	Model linking adaptations to functions	Model job + organs involved Model linking adaptations to functions	Model IP4 answer – Structure Adaptation Function	Model IP3 answer – Structure Adaptation Function
Independent Practice	IP1 – Describe the structure of the leaf and the functions of the tissues in the leaf IP2 – describe adaptations of tissues for their functions	IP1 – fill in table with job of organ systems and main organs involved IP2 – KPI cells, tissues + organs	IP1 – label digestive system, why is chewing needed IP2 - Describe the job of the mouth, oesophagus and stomach in digestion IP3 - Describe the job of the liver, small intestine and large intestine IP4 - Explain how the small intestine is well adapted for absorption of digested food particles	IP1 – label parts of respiratory system IP2 – complete functions of parts of respiratory system IP3 – explain how lungs are adapted for gas exchange
Assessment (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 Learning checks on WB Students to self- assess all tasks. Teacher to circulate and check for misconceptions.	Independent practice tasks Learning checks on WB Students to self- assess all tasks. Teacher to circulate and check for misconceptions.
Resources				

Specific SEN(D)/EAL support			LAP versions of IP 1, 2, 3 + 4 provided	LAP version of IP3 provided
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