

Barnsley Academy – (Year 8 and Subject Biology - Digestion) Curriculum
Scheme of Work – 2023-24

Term 1 – Week 4 or Week 8				
	1	2	3	4
Lesson Focus	Diet	Poor Diet	Energy Release	Food Tests – Sugar & Starch
Prerequisite Knowledge		Lesson 1 - Diet	Lesson 1 - Diet	Lesson 1 - 3
Core Knowledge	<p>Name the components of food and describe what each is needed for in the body</p> <p>Interpret and make calculations from nutrition labels</p> <p>Calculate energy requirements for different activities</p>	<p>Describe some of the diseases linked with nutrient deficiency</p> <p>Describe some of the diseases linked with imbalances in energy intake</p> <p>Interpret data on the incidence of food related diseases</p>	<p>State uses for the energy released from food</p> <p>Describe how energy is released from food</p> <p>Evaluate a model for respiration</p> <p>Carry out energy release practical</p>	<p>Describe the difference between the two carbohydrates</p> <p>Describe how to test for starch and sugar, and their positive results.</p> <p>Work safely to carry out chemical tests for the presence of starch and sugar and record the results</p>
Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge)	<p>Model working out calorie content of a meal</p> <p>Model working out exercise needed to burn off a meal</p>	<p>Model answer:</p> <p>Deficiency</p> <p>symptoms</p> <p>dietary changes</p> <p>model interpreting graphs</p>	<p>Model evaluation model for respiration</p> <p>Model practical steps</p>	<p>Model practical steps</p>
Independent Practice	<p>IP1 – Carbs, fats and protein- Why is it needed in the body and what is a good source</p> <p>IP2 – Identify food groups in a sandwich + which ingredient they are found in</p> <p>IP3 – calculate calories in a meal</p>	<p>IP1 – Anaemia, scurvy and Rickets: deficiency, symptoms & dietary changes</p> <p>IP2 – obesity risk + heart disease</p> <p>IP3 – graph interpretation</p>	<p>IP1 – respiration Qs</p> <p>IP2 – evaluation model for respiration</p> <p>IP3 – KPI</p> <p>IP4 – energy release practical</p>	<p>IP1 – method for starch test</p> <p>IP2 – identify positive and negative results for starch test</p> <p>IP3 – method for sugar test</p> <p>IP4 – Carry out practicals</p>

	IP 4 – calculate exercise needed to burn off a meal			
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 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. IP – carry out practical
Resources				
Specific SEN(D)/EAL support				