Bellerive FCJ Catholic College KS3 Scheme of Learning 2020 Reviewed DH/AMB

KS3 Unit Overview – Big Picture

Subject/Year group/Unit Title	Big picture	Pupils will focus particularly on the following statements from the programme of study:
	Over this unit the pupils will cover the following	BSNu1: content of a healthy human diet:
	key points	carbohydrates, fats, proteins, vitamins, minerals,
Biology/Year 8/8A Food and Energy		dietary fibre and water, and why each is needed
	1 What is a healthy diet?	BSNu2: calculations of energy requirements in a
Lessons:	2. How to use food tests to identify the	healthy daily diet
	components of food (Part 1).	BSNu3: the consequences of imbalances in the
1. A Healthy Diet	3. How to use food tests to identify the	diet, including obesity, starvation and deficiency
2. Food tests – Carbohydrates	components of food (Part 2).	diseases
3. Food tests – Proteins and Fats	4. Investigate the energy content of different in	BSNu4: the tissues and organs of the human
4. Energy in Food	foods.	digestive system, including adaptations to
5. Daily energy requirements	5. Calculate the energy requirements of a healthy	function and how the digestive system digests
6. Poor diets	daily diet.	food (enzymes simply as biological catalysts)
7. The digestive system	6. Learn about the consequences of imbalances	BSNu5: the importance of bacteria in the human
8. Process of digestion	in the diet, including obesity, starvation and	digestive system
9. Enzymes and digestion	deficiency diseases.	BMC1: aerobic and anaerobic respiration in living
10. The model gut	7. Identify the tissues and organs of the human	organisms, including the breakdown of organic
11. Absorption into the blood	digestive system, including adaptations to	molecules to enable all the other chemical
12. Aerobic respiration	function.	processes necessary for life
13. Anaerobic respiration	8. Understand how the digestive system digests	BMC2: a word summary for aerobic respiration
14. End of Unit Test	food and the role of enzymes as biological	BMC3: the process of anaerobic respiration in
	catalysts.	humans and micro-organisms, including
	9. Carry out an investigation on enzymes using	fermentation, and the word summary for
	starch and amylase	anaerobic respiration
	10. Investigating the model gut.	BMC4: the differences between aerobic and
	11. Absorption into the blood.	anaerobic respiration in terms of the reactants,
	12. Aerobic Respiration.	the products formed and the implications for the
	13. Anaerobic Respiration.	organism
	14. Revision and EoU test.	

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Assessment tasks	As FCJ educators, we will focus on the FCJ values by:	We will ensure students skills in reading, writing, communication and mathematics are enhanced by:
Formative Assessment "The Journey of the Cheese sandwich" Summative progress test 8A Food and Energy	 Companionship – team work in practical lessons and paired work. Dignity – in their work on starvation Excellence – progress towards targets Justice – all pupils engaged. Gentleness – behaviour with pupils and teacher. Hope – consideration of food poverty and ways to address this. 	Extended writing opportunity – the journey of a cheese sandwich Calculating energy values of food and work with food labels
We are supporting progression from KS2 in this unit by:	We are supporting progression to KS4 in this unit by:	Misconceptions and how they will be addressed:
Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function and describe the ways in which nutrients and water are transported within animals, including humans.	Preparing our pupils for the work on cell metabolism in KS4 when they are required to compare the processes of aerobic and anaerobic respiration.	Staff to be aware of areas that present challenge e.g. respiration definition. Precise use of vocabulary by teacher and pupils on scientific terms. Review of tests/assessments in class and corrections made by teacher/pupils.