APSC
Continuity of Learning

Year 8 – Science

WB	Lesson	Key content	Online lesson link
4Th November	Balanced diet and BMI	• To know the components of food and describe what each is needed for in the body • To understand how to interpret and make calculations from nutrition labels (using the mathematical concept of proportion) • To be able to calculate BMI and discuss the **limitation** of it	https://continuityoak.org.uk/Lessons?r=2667 https://continuityoak.org.uk/Lessons?r=1929
	Energy release	• To know the method to compare the amount of energy in different foods • To be able to recall IV, DV and CV. • To understand how to, or to draw results table and measure temperature changes	https://continuityoak.org.uk/Lessons?r=1340
11th November	Food test - carbohydrates	• To know the difference between the two carbohydrates • To understand how to test for starch and sugar and know their positive result • To be able to write a method of Benedict's test and iodine test. The description must include the equipment involved.	https://continuityoak.org.uk/Lessons?r=1341
	Food test - protein and fats	• To know the chemical test for protein and fat and their positive results • To be able to describe the procedures of the two food tests. • To interpret the results of food tests and make conclusions based on given foot test results.	https://continuityoak.org.uk/Lessons?r=1342
18th November	The digestive system	• To recall the digestive organs and their functions • To understand how mechanical digestion is different from chemical digestion • To be able to describe the mechanical digestion and the chemical digestion in different regions of the digestive system	https://continuityoak.org.uk/Lessons?r=1344
	Adaptations of the small intestine	• To know the adaptations of the small intestine • To understand how these adaptations speed up diffusion • To be able to write in detail about these adaptations	https://continuityoak.org.uk/Lessons?r=1345
25th November	Enzymes	• To know the enzymes involved in digestion • To understand the lock and key model of enzyme action • To be able to name enzymes and describe their functions	https://continuityoak.org.uk/Lessons?r=1931
	Effect of temperature on enzymes	• To know that enzymes can be denatured • To apply the lock and key model of enzyme action • To be able to explain what happens when enzymes are denatured	https://continuityoak.org.uk/Lessons?r=1346
2nd December	Case study of Rebecca Lancefield	To know the work of Rebecca Lancefield	https://continuityoak.org.uk/Lessons?r=1347
	Review 1	Review part 1	https://continuityoak.org.uk/Lessons?r=1343

9th December	Review 2	Review part 2	https://continuityoak.org.uk/Lessons?r=1349
16th December	Light waves	• To know light is a wave, carrying energy and travelling in straight lines. • To understand that vision is formed by light reflecting off objects and reaching the eye. • To be able to describe transmission, reflection, absorption and refraction, also the circumstances under which the above phenomenon occurs	https://continuityoak.org.uk/Lessons?r=1307
	Reflection	• To know the law of reflection and the two types of reflection • To understand that the reflected image is laterally inverted and that the image is affected by the smoothness of the surface. • To be able to draw a ray diagram and label the diagram using keywords.	https://continuityoak.org.uk/Lessons?r=1309
Half Term			
	Refraction	• To know light bends when it enters materials of different density. • To understand why light bends away or towards the normal • To be able to draw labelled diagrams to show refraction of light https://continuityoak.org.uk/Lessons?r=1311	