

Year 9 (B4)	2018-19			
Week	w/c	Topic area	Lesson title	Practicals
1	03/09/2018	B1 Dead or alive (cells)		
		B2 Babies (reproduction)		
		B3 Control systems		
3	17/09/2018	B4 Fooling your senses		
		B5 Gasping for breath		
5	01/10/2018	B6 Casualty		
		C1 Physical or chemical change		
		C2 Acids and alkalis		
7	15/10/2018	Indigestion tablet coursework Indigestion tablet coursework Indigestion tablet coursework Indigestion tablet coursework C3 Everything in its place		
HALF TERM				
9	05/11/2018	C4 Clean air and water		
		C5 Novel materials		
		C6 Sorting out		
11	19/11/2018	P1 Getting the message		
		P2 Full spectrum		
		P3 Medical Rays		
13	03/12/2018	P4 Hot stuff		
		P5 Alternative energy		
15	17/12/2018	P6 Nuclear power		
XMAS				
		B7 You only have one life		
		B8 Body wars		
17	14/01/2019	B9 Creepy crawlies		
		B10 Extinction		
19	28/01/2019	B11 My genes		
		B12 Food factory		
		C7 Lets's get together		
21	11/02/2019	C8 Heavy metal		
HALF TERM				
		C9 Fuels		
23	04/03/2019	C10 Are you overreacting		
		C11 How fast how slow		
		C12 CSI plus		
25	18/03/2019	P7 Our electricity supply		
		P8 Attractive forces		

		P9 Pushes and pulls		
27	01/04/2019			
		P10 Driving along		
EASTER		P11 Fly me to the moon		
		P12 Final frontiers		
29	29/04/2019			
		End of Entry level Course		
		B1 Overarching concepts in Biology	CB1a: Microscopes CB1b: Plant and animal cells	Students use microscopes to examine pre-prepared slides of small objects (e.g. hair, pollen). (See Exploring.)
			CB1b: Plant and animal cells CB1c: Specialised cells CB1d: Inside bacteria	*B1.6: Core Practical: Investigate biological specimens using microscopes, including magnification calculations and labelled scientific drawings from observations
31	13/05/2019		CB1e: Enzymes and nutrition CB1f: Enzyme action CB1g: Enzyme activity CB1h: Transporting substances	Suggested practical: Investigate plant and animal cells with a light microscope. Students use a microscope to examine live yoghurt cultures to look for bacteria. Suggested practical: Investigate the effect of different concentrations of digestive enzymes, using and evaluating models of the alimentary canal. Suggested practical: Investigate the effect of temperatures and concentration on enzyme activity.
			CB1h: Transporting substances Revision/End of unit test Review	B1.10: Core Practical: Investigate the effect of pH on enzyme activity
			CC1a: States of matter * CC1a: States of matter *	B1.16: Core practical: Investigate osmosis in potatoes
HALF TERM		C1 States of matter		Suggested practical: Investigate the effect of different concentrations of digestive enzymes, using and evaluating models of the alimentary canal
33	03/06/2019	C2 Methods of separating and purifying substances	CC2a: Mixtures CC2b: Filtration and crystallisation CC2b: Filtration and crystallisation	Teacher demonstration of sublimation and deposition of iodine.
			CC2c: Paper chromatography CC2d: Distillation	Demonstrate the difference between the way pure and impure samples of a solid melt. Demonstrate how to heat to dryness safely.
			CC2d: Distillation CC2e: Drinking water Revision/End of unit test Review	C2.11: Core Practical: Investigate the composition of inks using simple distillation and paper chromatography C2.11: Core practical: Investigate the composition of inks using simple distillation and paper chromatography
			CP1a: Vectors and scalars CP1b: Distance/time graphs * CP1b: Distance/time graphs *	Demonstrate the fractional distillation process using a Liebig condenser and an ethanol/water mixture. Demonstrate a simple solar still
35	17/06/2019	P1 Motion	CP1c: Acceleration * CP1d: Velocity/time graphs * Revision/End of unit test Review	Suggested practical: Investigate the acceleration, g, in free fall and the magnitudes of everyday accelerations.
		P2 Forces and motion	CP2a: Resultant forces CP2a: Resultant forces	Suggested practical: Demonstrate that horizontal and vertical forces on an object can be discussed independently of each other.
37	01/07/2019		CP2b: Newton's First law CP2c: Mass and weight	Suggested practical: Use an air track to demonstrate the effects of friction on moving objects. Suggested practical: Investigate the relationship between mass and weight.
			CP2d: Newton's Second Law CP2d: Newton's Second Law CP2e: Newton's Third Law CP2g: Stopping distances (CP2h is H)	P2.19: Core Practical: Investigate the relationship between force, mass and acceleration by varying the masses added to trolleys
			CP2h: Crash hazards CP2h: Crash hazards Revision End of unit test Review	Suggested practical: Investigate how crumple zones can be used to reduce the forces in collisions.
39	15/07/2019			SET REVIEW