

Week	2018-19	Topic area	Lesson title	Practicals	Week	2018-19	Topic area	Lesson title	Practicals
1	03/09/2018	P6: Radioactivity	Lesson SP6h: Uses of radioactivity Lesson SP6i: Dangers of radioactivity Lesson SP6j: Nuclear Medicine		1		B8 Exchange and transport in animals	SB8a: Efficient transport and exchange SB8b: Factors affecting diffusion SB8c: The circulatory system	Suggested practical: Investigate the short-term effects of exercise on breathing rate and heart rate.
			Lesson SP6k: Nuclear Energy					SB8d: The heart	Suggested practical: Investigate the short-term effects of exercise on breathing rate and heart rate.
3	17/09/2018		Lesson SP6l: Nuclear fission Lesson SP6m: Nuclear fusion Lesson SP6n: Nuclear Fusion Lesson SP6o: Nuclear Fusion		3			SB8e: Cellular respiration SB8f: Cellular respiration Revision/end of unit test Review	Core practical: Investigate the rate of respiration in living organisms.
5	01/10/2018		Revision End of unit test		5		B9 Ecosystems and material cycles	SB9a: Ecosystems SB9b: Energy transfer	
			Review Lesson SP7a: Solar System Lesson SP7a: Solar System					SB9c: Abiotic factors and communities SB9d: Biotic factors and communities SB9e: Biotic factors and communities	Core practical: Investigate the relationship between organisms and their environment using field-work techniques, including quadrats and belt transects.
7	15/10/2018	P7 Astronomy	Lesson SP7b: Gravity and Orbits Lesson SP7c: Gravity and Orbits Lesson SP7d: Compare the Steady State and Big Bang theories		7			SB9f: Assessing pollution SB9g: Parasitism and mutualism	Suggested practical: Investigate how indicator species can be used to assess levels of pollution in water or the atmosphere.
			Lesson SP7e: Red shift/CMB Lesson SP7f: Red shift/CMB Lesson SP7g: Evolution of stars Lesson SP7h: Evolution of stars					SB9h: Biodiversity and humans SB9i: Preserving biodiversity SB9j: Food security SB9k: The water cycle SB9l: The carbon cycle	Suggested practical: Investigate animal behaviour using choice chambers.
9	05/11/2018		Revision Test Review		9			SB9m: The nitrogen cycle SB9n: Rates of decomposition	
11	19/11/2018		Lesson SP8a: Work and power Lesson SP8b: Work and power		11				
13	03/12/2018	P8 Energy – forces doing work	Lesson SP8a: Objects affecting each other Lesson SP8b: Objects affecting each other	Investigate power by running up the stairs or lifting objects of different weights.	13				
15	17/12/2018	P9 Forces and their effects	Lesson SP9b: Vector diagrams Lesson SP9b: Vector diagrams Lesson SP9c: Situations where forces can cause rotation (moments) Lesson SP9c: Situations where forces can cause rotation (moments)		15				
Christmas			Revision End of unit test	Suggested practical: Investigate levers and gears.	Christmas				
16	07/01/2019		Lesson SP10a: Electric circuits * Lesson SP10b: Current and potential difference		16				
17	14/01/2019		Lesson SP10b: Current and potential difference * Lesson SP10c: Current, charge and energy Lesson SP10c: Current, charge and energy Lesson SP10d: Resistance * Lesson SP10d: Resistance * Lesson SP10e: More about resistance Lesson SP10e: More about resistance		17				
19	28/01/2019	P10 Electricity and circuits	Lesson SP10f: Transferring energy Lesson SP10g: Power		19				
			Lesson SP10g: Power Lesson SP10h: Transferring energy by electricity Lesson SP10h: Transferring energy by electricity	Core Practical: Construct electrical circuits to: a) investigate the relationship between potential difference, current and resistance for a resistor and a filament lamp. b) test series and parallel circuits using resistors and filament lamps					
21	11/02/2019		Lesson SP10i: Electrical safety Revision End of unit test Review	Suggested practical: Investigate the power consumption of low-voltage electrical items	21				
Feb half term			Lesson SP11a: Explain how an insulator can be charged by friction Lesson SP11a: Explain how an insulator can be charged by friction Lesson SP11b: Explain common electrostatic phenomena (dangers) Lesson SP11b: Explain common electrostatic phenomena (uses)		Feb half term				
23	04/03/2019		Lesson SP11c: Define an electric field as the region where an electric charge experiences a force Lesson SP11c: Define an electric field as the region where an electric charge experiences a force	Suggested practical: Investigate the forces of attraction and repulsion between charged objects.	23				
25	18/03/2019		Revision End of unit test Review		25				
27	01/04/2019	P11 Static electricity	Lesson SP11b: Explain common electrostatic phenomena (dangers) Lesson SP11b: Explain common electrostatic phenomena (uses)		27				
Easter			Lesson SP11c: Define an electric field as the region where an electric charge experiences a force Lesson SP11c: Define an electric field as the region where an electric charge experiences a force		Easter				
29	29/04/2019	Revision Time	Revision Revision Revision		29				
31	13/05/2019		Revision Revision Revision		31				
May half term			Revision Revision Revision		May half term				
33	03/06/2019		Revision Revision Revision		33				
35	17/06/2019		Revision YEAR 10 MOCKS YEAR 10 MOCKS YEAR 10 MOCKS YEAR 10 MOCKS		35				
37	01/07/2019		Static Revision MOCKS REVIEW LESSON		37				
		P11 Static electricity	Lesson SP11c: Define an electric field as the region where an electric charge experiences a force Lesson SP11c: Define an electric field as the region where an electric charge experiences a force						
39	15/07/2019				39				