

#### **Temperance Term**

W/C	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	HALF TERM	
Area of Study				1	l	1			
	B2.1 Health and Lifestyle and C2.1 The Periodic Table								
Core Learning	Explain what is meant by a balanced diet and how nutrients are digested.  Explain what makes a food a healthy option and how each nutrient contributes to a healthy, balanced diet.  Explain why testing food for starch, lipids, sugar, and protein is important and the meaning of positive or negative results in terms of the food tests. and explain how each part of the digestive system works in sequence, including adaptations of the small intestine for its function.  Describe and explain patterns in the periodic table.  Predict the properties of an element, given its position on the Periodic Table.  Explain how the position of an element can be used to suggest properties of elements.  Compare predictions with evidence, and from reactions involving Group 1 elements.								
Opportunitie s for Challenge		eople require different amo lations to represent displ		gy calculations and data to s	upport explanations				
Assessment	End of Topic Tests								

W/C	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	CHRISTMAS
Area of Study	P2.1 Ele	ectricity and	Magnetism	and B2.2 E	cosystem P	rocesses	
Core Learning							
	Explain, in terms of el Compare a gravitation Explain the difference Explain why potential	ity is and the difference be ectrons, why something be nal field and an electric field between potential difference is measured in part potential difference various be used.	comes charged. l. nce and current. narallel.				
	•	es of respiration and photo	•				
	State the word equati	ions for photosynthesis and	respiration.				

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	Describe the structure and function of the main components of a leaf.  Describe the process of chemosynthesis.	
Opportunities for Challenge	Explain what factors affect the resistance of a resistor. State and balance the symbol equations for photosynthesis and respiration.	
Assessment	End of Topic Tests and Temperance Term Assessment	



#### **Justice Term**

W/C	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	HALF TERM
Area of Study	C2.2 Separation Techniques and P2.2 Energy						
Core Learning	Use a range of separating techniques and identify solutes, solvents and solutions.  Explain the process of evaporation and distillation  Describe how chromatography separates mixtures						
	Describe how energy is transferred.  Calculate energy requirements for various situations, considering diet and exercise.  Compare energy transfers to energy conservation.  Explain, in terms of particles, how energy is transferred.  Compare the advantages and disadvantages of using renewable and non-renewable energy resources.  Explain how a range of resources generate electricity, drawing on scientific concepts.						
Opportunities for Challenge	Compare cooling curves for different substances.						
Assessment	Calculate and compare energy costs in different scenarios; explain how conservation of energy applies.  End of Topic Tests						
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W/C	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	EASTER		
Area of Study	B	B2.3 Adaptation and Inheritance and C2.3 Metals and Acids							
Core Learning	Explain how variation gives i	r long-term environmental change rise to different species and explai is affected by both environmental oh.	how competition or long-te	erm environmental change can le					
	Experiment and discover how metals react with different substances.  Use formula equations to show what happens when metals react in different acids.  Explain the reactivity of metals according to how they react with oxygen.								
Opportunitie s for Challenge		are inherited through and coded for nulas from given information	r by genes and how natural	selection leads to evolution and	explain some factors that may ha	eve led to extinction.			
Assessment	End of Topic Tests and Ju	ıstice Term Assessment							



#### **Courage Term**

W/C	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31	HALF TERM
Area of Study		P2.3 Motion a	nd Pressure	and Revision	n	EOY Assessments	
Core Learning	Use the speed equation to Draw and analysed distant Explain gas pressure in distant Explain why an object will Apply the concept of more Use calculations to explain						
Opportunitie s for Challenge	Calculate pressure in mul	tistep problems, compare pre					
Assessment	End of Topic Tests and En	nd of Year Assessment					

W/C	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	SUMMER		
Area of Study	EOY Assessments		P2.3 Motion and Pressure C2.4 The Earth						
Core Learning		Use the speed equation to Draw and analysed distanc Explain gas pressure in diff Explain why an object will Apply the concept of mom	e–time graphs for a range erent situations and comp loat or sink in terms of for	of journey. are some effects of atmosph ce or density.	eric pressure.				
		Give a detailed explanation	ock cycles.  If the atmosphere in terms of the sedimentary rock of the sedimentary rocks to	s of abundance of componen ycle. their methods of formation.					



	Discuss in detail the impacts of global warming, identifying primary and secondary problems.	
Opportunitie s for Challenge Assessment	Calculate pressure in multistep problems, compare pressure in different situations Use data to discuss the relative benefits and drawbacks of recycling materials.  End of Topic Tests	