

Key Vocabulary for Spring Term Overviews

Subject: Science		Year Group: 8	
Key Learning Points/End Points	Key Vocabulary		
Biology: Respiration Understand that respiration is a biochemical process that plays a central role for all living organisms. Link this to the mechanical process of breathing and the cells, tissues, organs and organ systems involved.	Cells Tissues Organs Organ systems Diffusion Energy Aerobic Fermentation	Glucose Thorax Lungs Diaphragm Ribcage Intercostal muscles Anaerobic	Trachea Bronchi Bronchioles Ventilation Asthma Smoking Respiration
Chemistry: Acids and Alkalis Have a secure knowledge of the properties of acids and alkalis and how to test for them using indicators, being able to predict the indicator results. Describe acid reactions and neutralisation.	Acid Alkali Chemical properties Indicators Neutral	Solution Chemical reaction Salts Neutralisation pH	Universal Indicator Concentration Hydrogen Strong/ weak acid/ alkali Metals
Physics: Heating and Cooling Understand how energy is transferred between stores of energy both by particles (conduction and convection) and by radiation.	Particle model State change Energy Heating curve Energy store Energy transfer	Thermal energy Conduction Convection Vacuum Radiation Conductors	Solids Liquids Gases Heat Temperature Insulators