## Key Vocabulary for Spring Term Overviews

| Subject: Combined Science | Year Group: 11 | | |
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| **Key Learning Points/End Points** | **Key Vocabulary** | | |
| **Biology: Transport and Homeostasis**<br>To understand how exchange surfaces in mammals enable efficient exchange of substances. To understand how animals coordinate and control their internal environment | Circulatory<br>Alveoli<br>Arteries<br>Veins<br>Capillaries<br>Valves<br>Septum<br>Atria<br>Ventricles | Aorta<br>Vena cava<br>Pulmonary artery<br>Pulmonary vein<br>Cardiac output<br>Aerobic respiration<br>Anaerobic respiration<br>Hormones<br>Glands | Menstruation<br>Ovulation<br>BMI<br>Waist: Hip ratio<br>Diabetes<br>Insulin<br>Glucagon<br>Glycogen |
| **Chemistry: Fuels and Earth's atmosphere**<br>To understand where and how we obtain fuels and process them for use in the modern world. To understand the composition of our current atmosphere and how it changed over time. | Crude oil<br>Hydrocarbons<br>Non-renewable<br>Fractional distillation<br>Evaporation<br>Condensation<br>Fractions<br>Viscosity<br>Volatility | Molecular formulae<br>Structural formulae<br>Alkanes<br>Saturated<br>Alkenes<br>Unsaturated<br>Incomplete combustion<br>Acid rain | Cracking<br>Greenhouse gas<br>Absorb<br>Emit<br>Climate change |
| **Physics: Particle model, Forces and Matter**<br>To understand how the particle model explains the properties of matter and what happens when energy is transferred to or from a substance. To understand how elastic and plastic materials behave when stretched. | Particles<br>Kinetic theory<br>Evaporating<br>Melting<br>Freezing<br>Condensing<br>Sublimation<br>Density | Thermal energy<br>Specific heat capacity<br>Melting point<br>Boiling point<br>Specific latent heat<br>Pascals<br>Absolute zero<br>Kelvin | Elastic<br>Inelastic<br>Spring constant<br>Work done |