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Terms	Topics covered and core knowledge and skills	Links to careers	Links to the Knowledge organiser and other additional resources
Half term 3	<ul> <li>Unit 03 – "Chemical Engineer"</li> <li>Properties of Solids, liquids and gases and their particles</li> <li>Changing state</li> <li>Diffusion and Brownian motion</li> <li>Solubility - solute, solvent, solutions/conservation of mass</li> <li>Elements, Mixtures, and Compounds</li> <li>Chemical Reactions and Forming Compounds</li> <li>Separating Mixtures - Evaporation and Filtration</li> <li>Separating mixtures - distillation</li> <li>The Periodic table</li> <li>Metals Vs Non-metals</li> <li>Trends in Group 1 Elements - Reactions and Reactivity</li> <li>Trends in Group 7 Elements - Reactions and Reactivity</li> </ul>	How to become a degree apprentice process engineer: Alex's story - BBC Bitesize  How to become an engineering apprentice: Jade's story - BBC Bitesize	What is the arrangement of particles in a solid, liquid and gas? - BBC Bitesize  What are changes of state? - BBC Bitesize  What is the process of filtration? - BBC Bitesize
Half term 4	Unit 04 – "Roller Coaster Engineer"  Drawing force diagrams Resultant forces and their effects Contact & non-contact forces Friction investigation (1) Friction investigation (2) Hooke's law Hooke's law: focus on graph skills Speed: focus on substituting into equations DT Graphs Moments Pressure Using pressure Launching a rollercoaster - Bad Science	How to become a physicist: Mark Richards' story - BBC Bitesize  How to become an engineer - BBC Bitesize	Introduction to forces - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize  Force diagrams and resultant forces - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize  Friction - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize  Hooke's law - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize

