Subject	Year 9 Physics Content Autumn Term	How to support students' learning
Energy Transfer by Heating	Summary of concepts taught: <ul> <li>Energy Transfer by Conduction</li> <li>Heating and Insulating Buildings</li> </ul>	Conduction is a topic you will be familiar with from year 8, bump up and review your GCSE knowledge by watching this video: Conduction - GCSE Physics - YouTube
		Read up about how you can insulate your home and safe yourself money! How to insulate your home and stay warm this winter - Energy Saving Trust
Energy Resources	Summary of concepts taught: <ul> <li>Energy Demands</li> <li>Energy from wind and water</li> <li>Power from the Sun and the Earth</li> <li>Energy and the Environment</li> <li>Big Energy Issue</li> </ul>	EDF have a great page of information regarding energy resources: Renewable Energy   Types, Forms & Sources   EDF (edfenergy.com) See what you can tell your parents about how to reduce the cost of energy at home!  What are the energy challenges of the future? The biggest energy challenges facing humanity - BBC Future Read about this in the article above.
Molecules of Matter	Summary of the concepts covered:  Density  Density – Required Practical for GCSE  States of Matter  Changes of State  Internal Energy  Specific Latent Heat  Gas Pressure and Temperature	You will have covered density in lesson, use the simulation to have play with density of materials:  Density - Density   Mass   Volume - PhET Interactive Simulations (colorado.edu)  You will need to know about the density required practical for GCSE science. Watch the video here to review the content covered in lesson: Density - GCSE Science Required Practical - YouTube  Read this BBC bitesize website about solids, liquids and gases: Solids, liquids and gases - The three
		<ul> <li>states of matter - AQA - GCSE Combined Science</li> <li>Revision - AQA Trilogy - BBC Bitesize</li> <li>You need to know how solids can turn into liquids etc, watch this video about changes of state:</li> </ul>

