

You will need your textbook to complete the following work. If you do not have your textbook or the ebook version from the front of your textbook, then use the following link to help

<https://www.bbc.co.uk/bitesize/examspecs/zqpshv4>

You need to draw a poster, make a powerpoint or some other review materials on the following topics.

Topic	Page(s)	Notes
Thermal Energy	144-148	Take special care to read the captions for the figures on page 144
Sankey Diagrams and Efficiency	136-137	Do not forget that although the length of the Sankey diagram does not matter, the width of each arrow must reflect the portion of energy spent in each different way
Work and Power	150-156	Review the formulae and how to use them to answer the questions. Explain in words how work and power are related.
Conduction, Convection and Radiation	139-143	Explain how heat is transferred using these mechanisms. Remember that usually heat is transferred using more than one of these methods at the same time.
Density and Pressure	173-178	Remember that pressure on a surface needs an area value but pressure in a liquid does not require this. Review the formulae and how to use them to answer the questions.
Kinetic Model and Absolute Zero	189-191	Make sure you know which way around K and °C are, i.e. Because Kelvins are bigger than °C, that means that to convert from °C to K, we must add 273.

		Remember that the Kelvin scale starts at 0 K but that the Celsius scale starts at $-273\text{ }^{\circ}\text{C}$.
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Tasks

1. Make yourself a revision booklet covering all of the above.
2. Answer the questions on page 157 relating to work, power and efficiency.

EMG High School