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| **Scheme of Learning** | | | | | | | | |
| **Subject** | Physics | **Key stage** | 5 | **Topic** | | Latent Heat | **Unit** | 5.19 |
| **Big Picture** | **From where?** | | **Learning Objectives** | | | | **Resources** | |
| Students have learnt about internal energy changes and the specific heat capacity | | **To define latent heat and measure the melting point for a substance** | | | | Salol in tubes  Beakers  Thermometers | |
| **To where?** | | **Levelled Success Outcomes** | | | | **Use of TAs/Other adults** | |
| Measuring the latent heat of fusion and | | **K –** state the definition of the term latent heat  **B –** carry out an experiment to measure the melting point of salol  **A –** evaluate the experiment and identify sources of error | | | |  | |
| **Learning Hook/WOW** | | | **Key Vocabulary** | | | | **Homework** | |
|  | | | Heat, temperature, latent heat | | | |  | |
| **Lesson** | **Outline Plan** | | **Key(K)** | | **Booster (B)** | | **Aspire (A)** | |
| **Starter:** | On slide 1 – calculation on work from previous lesson. | |  | |  | |  | |
| **Activity**  Model  Construct Meaning | Define the term latent heat and explain to students how they can measure this | |  | |  | |  | |
| **Apply:**  (knowledge and skills learnt.) | Students carry out experiment and plot graph of their data. They can use this to find the melting point – this is the place where the graph goes flat. | |  | |  | | Students can explain why it goes flat here in terms of making bonds | |
| **Review:** | On slide – students evaluate their experiment. | | Qualitative analysis only | | Some attempt at quantitative analysis | | Thorough quantitative analysis of experiment. | |
| **Subject**  **Generic Skills**  **SMSC** |  | |  | |  | |  | |
| **Key Questions** |  | |  | |  | |  | |
| **Assessment** |  | |  | |  | |  | |