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| **Scheme of Learning** | | | | | | | | |
| **Subject** | Physics | **Key stage** | 5 | **Topic** | |  | **Unit** | 5.17 |
| **Big Picture** | **From where?** | | **Learning Objectives** | | | | **Resources** | |
| Students have just completed their assessment on chapter 10 | | To describe the internal energy changes as substances change state | | | |  | |
| **To where?** | | **Levelled Success Outcomes** | | | | **Use of TAs/Other adults** | |
| Specific heat capacity | | **K –** convert between Celsius and Kelvin  **B –** define the term internal energy  **A –** explain how the internal energy of a substance changes as it changes state | | | |  | |
| **Learning Hook/WOW** | | | **Key Vocabulary** | | | | **Homework** | |
|  | | | Binding energy, nucleon, fission, fusion, thermal, neutron, moderator | | | |  | |
| **Lesson** | **Outline Plan** | | **Key(K)** | | **Booster (B)** | | **Aspire (A)** | |
| **Starter:** | Students explain the atom arrangement in solids, liquids and gases | |  | | Explain the relative strength of the force between atoms | | Describe the 4th state of matter (Plasma) | |
| **Activity**  Model  Construct Meaning | Q. Two cubes are in a room. How can they exchange energy? Hitting each other or at different temperatures.  Go through slides and explain to students how they convert the temperature between scales. | |  | |  | |  | |
| **Apply:**  (knowledge and skills learnt.) | Students use the textbook to complete the worksheet.  Check on temperature conversions from the slide on the ppt. | |  | |  | |  | |
| **Review:** | Review learning against the outcomes and set a target for improvement. | |  | |  | |  | |
| **Subject**  **Generic Skills**  **SMSC** |  | |  | |  | |  | |
| **Key Questions** |  | |  | |  | |  | |
| **Assessment** |  | |  | |  | |  | |