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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**ModelConstruct 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** |  |  |  |  |