|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scheme of Learning** | | | | | | | | |
| **Subject** | Physics | **Key stage** | 5 | **Topic** | | Experimental Gas laws | **Unit** | 5.21 |
| **Big Picture** | **From where?** | | **Learning Objectives** | | | | **Resources** | |
| Students have learnt about internal energy changes and the specific heat capacity. They have also calculated latent heat. | | Gas laws as experimental relationships between *p*, *V*, *T* and mass.  Concept of absolute zero of temperature. | | | |  | |
| **To where?** | | **Levelled Success Outcomes** | | | | **Use of TAs/Other adults** | |
| Ideal gas equation | | **K –** to state the three experimental gas laws and the relationships that derive from them  **B –** to describe the experiments and the consequences of the results  **A –** to use the gas laws to calculate unknown quantities | | | |  | |
| **Learning Hook/WOW** | | | **Key Vocabulary** | | | | **Homework** | |
|  | | | Pressure, volume, temperature, absolute zero | | | |  | |
| **Lesson** | **Outline Plan** | | **Key(K)** | | **Booster (B)** | | **Aspire (A)** | |
| **Starter:** |  | |  | |  | |  | |
| **Activity**  Model  Construct Meaning |  | |  | |  | |  | |
| **Apply:**  (knowledge and skills learnt.) |  | |  | |  | |  | |
| **Review:** |  | |  | |  | |  | |
| **Subject**  **Generic Skills**  **SMSC** |  | |  | |  | |  | |
| **Key Questions** |  | |  | |  | |  | |
| **Assessment** |  | |  | |  | |  | |