**Physics Revision: Work, Power and**

Mastery Matrix Points

|  |
| --- |
| Define and calculate specific heat capacity |
| Use and rearrange equations for calculating specific heat capacity |
|  (Required Practical) Describe the practical used to investigate the specific heat capacity of a given object. |
| Define and calculate work done |
| Define and calculate power |
| Describe examples of applications of power in everyday life |

Key Knowledge

Definitions

Specific Heat Capacity

Work done

Power

Equations

Specific Heat Capacity

Work done

Power

**Specific Heat Energy**

Understanding and Explaining

1. **Rearrange the specific heat capacity equation for i) m ii) c iii) ∆T**
2. **Explain how to calculate the specific heat capacity of a material using an experiment.**
3. **Rearrange the work done equation for i) d ii) F**
4. **Rearrange the power equation for i) E ii) t.**
5. **Explain why a 10W motor could move a toy car further than a 5W motor in the same time.**