

Required Practical's

Required Practical Number	Title	Topic	RAG
1	Determining specific heat capacity. Determine the specific heat capacity of a metal block of known mass by measuring the energy transferred to the block and its temperature rise, and using the equation for specific heat capacity	P2.4	
2 <i>Triple only</i>	Investigating Thermal Insulators <i>Use different materials and different thicknesses of the same material to insulate identical beakers of hot water, and measure the changes in temperature of the water at regular intervals</i>	P2.1	
3	Investigation resistance. Set up circuits and investigate the resistance of a wire, and of resistors in series and parallel.	P4.3 P4.6	
4	Investigating Electrical Components. Correctly assemble a circuit and investigate the potential difference-current characteristics of circuit components.	P4.4	
5	Calculating Densities. Measure the mass and volume of objects and liquids and calculate their density using the density equation	P6.1	
6	Investigate the relationship between force and extension for a spring. Hang weights of known mass from a spring and, using the correct apparatus, measure the resulting extension. Use the results to plot a force-extension graph.	P10.8	
7	Investigate the relationship between force and acceleration. Using a newton-meter, investigate the effect on the acceleration of an object of varying the force on it and of varying its mass.	P10.1	
8	Investigation plane waves in a ripple tank and waves in a solid. Determine which apparatus are the most suitable for measuring the frequency, speed, and wavelength of waves in a ripple tank, and investigate waves of a stretched string.	P12.4	
9 <i>Triple only</i>	Investigating the reflection and refraction of light <i>Use different substances and surfaces to investigate the refraction and reflection of light</i>	P14.2 P14.3	
10	Investigate infrared radiation Determine how the properties of a surface affect the amount of infrared radiation absorbed or radiated by the surface.	P13.2	

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