PHYSICS PAG 11.2 CHECKLIST

Investigation

Determining the specific heat capacity of a material

Skill & Practical skills Spec. Reference

- ☐ **1.2.1 (a)** Apply investigative approaches and methods to practical work
- ☐ **1.2.1 (b)** Safely and correctly use a range of practical equipment and materials
- ☐ **1.2.1 (d)** Make and record observations/measurements
- ☐ **1.2.1 (e)** Keep appropriate records of experimental activities
- ☐ **1.2.1(f)** Present information and data in a scientific way
- ☐ **1.2.1 (g)** Use appropriate software and tools to process data
- ☐ **1.2.1 (h)** Use online and offline research skills including websites, textbooks and other printed scientific sources of information
- ☐ **1.2.1 (i)** Correctly cite sources of information
- ☐ **1.2.1(j)** Use a wide range of instruments, equipment and techniques
- ☐ **1.2.2(a)** Use appropriate analogue apparatus to record a range of measurements (to include length, distance, temperature, pressure, force, angles and volume) and to interpolate between scale markings
- ☐ **1.2.2 (b)** Use of appropriate digital instruments including multimeters to obtain measurements (to include time, current, voltage, resistance and mass)
- ☐ **1.2.2 (c)** Use of methods to increase accuracy of measurements, such as timing over multiple oscillations, or use of fiduciary marker, set square or plumb line
- ☐ **1.2.2 (d)** Use of a stopwatch or light gates for timing

PHYSICS PAG 11.2 CHECKLIST

- ☐ **1.2.2 (g)** Designing, constructing and checking circuits using DC power supplies, cells, and a range of circuit components

- ☐ **1.2.2 (k)** Use of ICT such as computer modelling, or data logger with a variety of sensors to collect data, or use of software to process data