Determine the specific heat capacity of one or more materials

Investigate the effectiveness of different materials as thermal insulators

Set up circuits to investigate:
- The resistance of a length of wire at constant temperature
- Resistors in series and parallel

Set up circuits to investigate the I-V characteristics of:
- A resistor
- A filament lamp
- A diode

Make and record measurements to determine the density of:
- Regular objects
- Irregular objects
- Liquids

Investigate the relationship between force and extension for a spring

Investigate how the amount of infrared radiation absorbed or radiated by a substance depends on the surface

Investigate the:
- Reflection of light by different types of surfaces
- Refraction of light by different substances

Make observations to identify the suitability of apparatus for measuring the frequency, wavelength and speed of:
- Waves in a ripple tank
- Waves in a solid

Investigate the effect on acceleration of:
- Varying the force for a constant mass
- Varying the mass for a constant force