

Get UP!

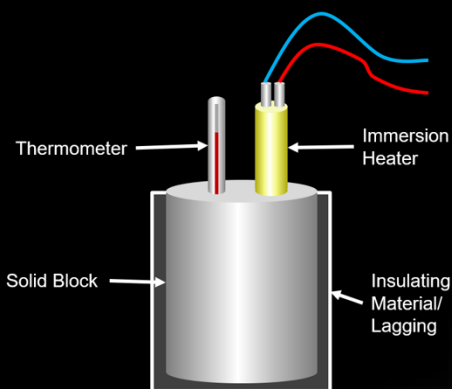
Understanding Physics

Equipment Library - GCSE Physics (AQA)

Required Practical 1 – Specific Heat Capacity



Stopwatch/
Timer



Q = Heat Energy
(J)

c = Specific Heat Capacity
($\text{JKg}^{-1}\text{°C}^{-1}$)

$$Q = mc\Delta T$$

m = Mass
(Kg)

ΔT = Change in
Temperature
(°C)

Provided in Kit:

1kg Copper, Iron (steel)
& Aluminium blocks.

Pipettes

30W heater

Multi-meters

4mm leads



For School to supply:

Thermometer

12V power supply

Insulation

Stopwatch

Balance to determine

mass of blocks

Heatproof mat

Class Set
for up to
30
Students

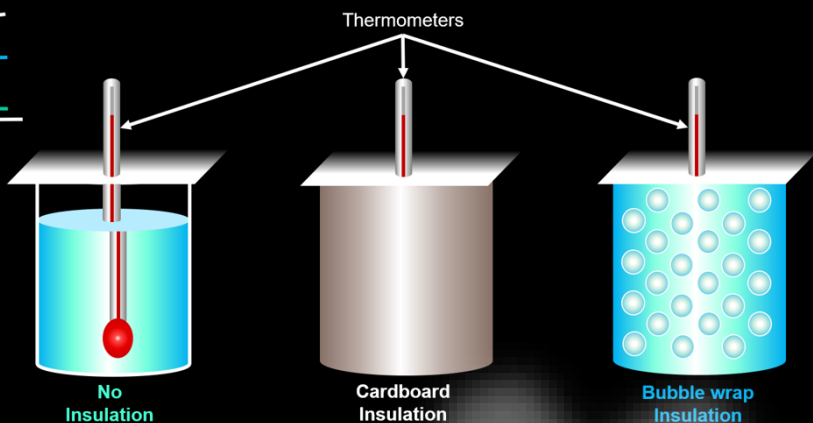
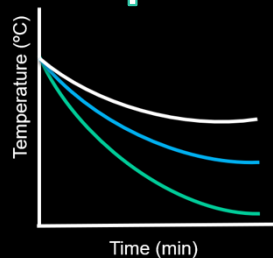


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Required Practical 2 – Thermal insulation



Provided in Kit:
Not Currently Available.



For School to supply:

100 cm³ beakers

250 cm³ beakers

Thermometers

Kettle

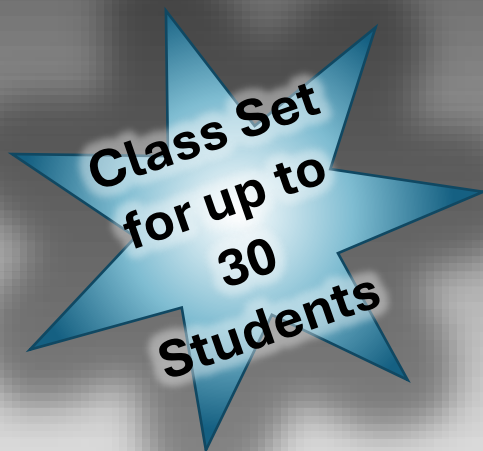
Cardboard

Scissors

Stopwatch

Insulating material

Rubber

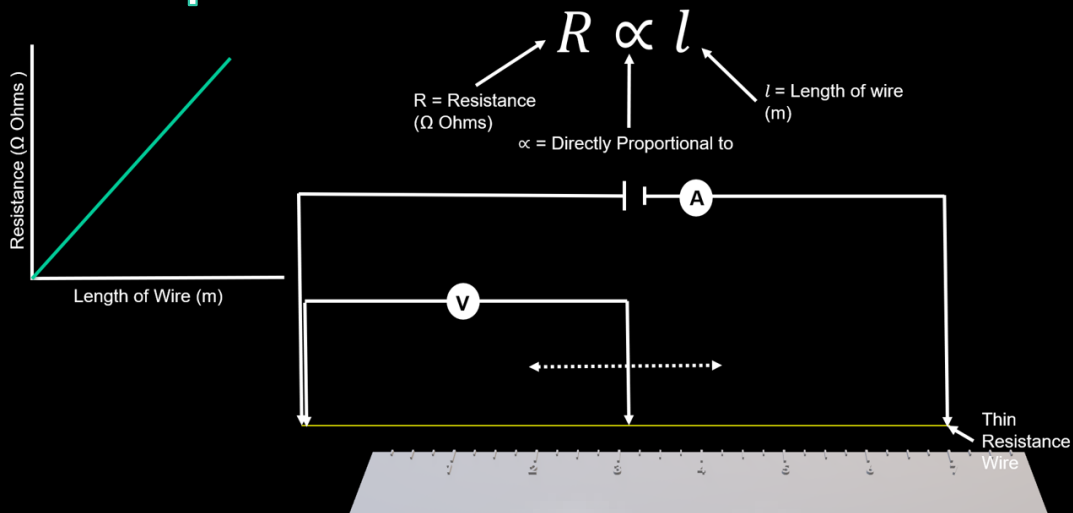


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Required Practical 3 – Resistance



Provided in Kit:

Resistance Wire
Multi-meters
Connecting leads



For School to supply:

Battery or suitable
Power supply
Crocodile clips
Metre rule
Wire-wound resistors,
e.g. 10 Ω .

Class Set
for up to
30
Students

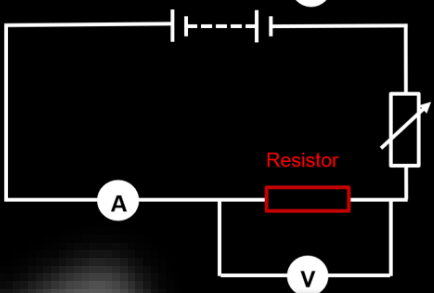
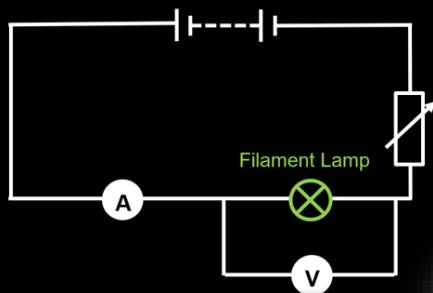
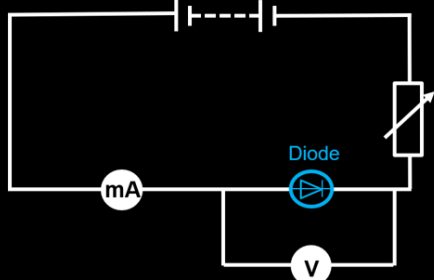
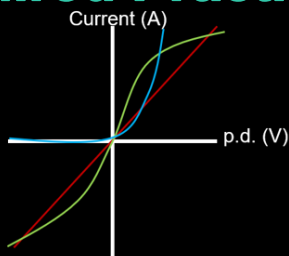


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Required Practical 4 – IV Characteristics



Provided in Kit:

Multi-meters

Variable resistor

(e.g. 10 Ω , 5 A)

Connecting leads.



For School to supply:

Milliammeter (diode)

12 V, 24 W filament

Lamp

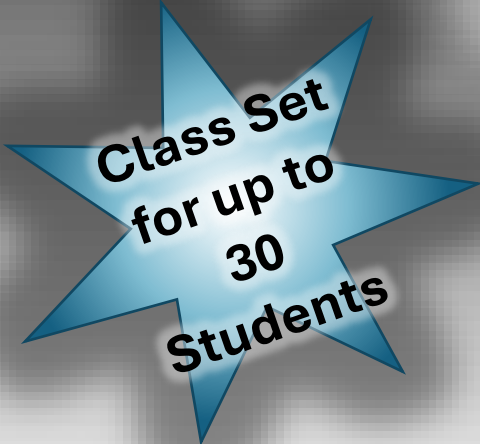
Resistor

(e.g. 100 Ω , 1 W)

Diode

Protective resistor

(e.g. 10 Ω)



Class Set
for up to
30
Students

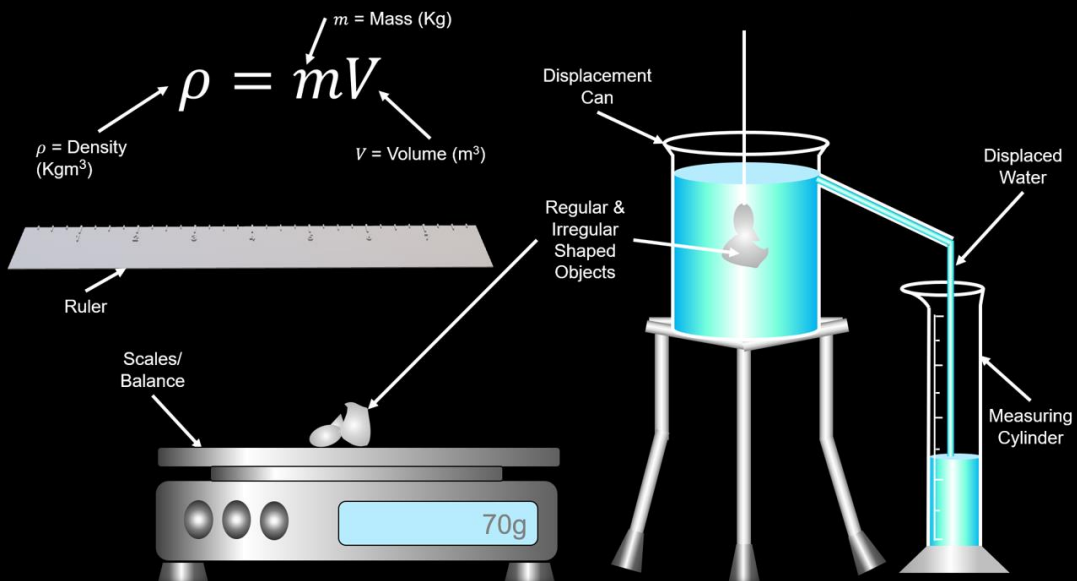


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Required Practical 5 – Density



Provided in Kit:

Not Currently Available.

For School to supply:

- Regular shaped objects
- Irregular shaped objects
- Suitable liquid
e.g. sugar solution
- 30 cm ruler (mm)
- Digital balance
- Displacement can
- Variety of measuring
cylinders
- 250 cm 3 beakers
- paper towels.

High
Quality
Equipment
Class Set
for up to
30
Students

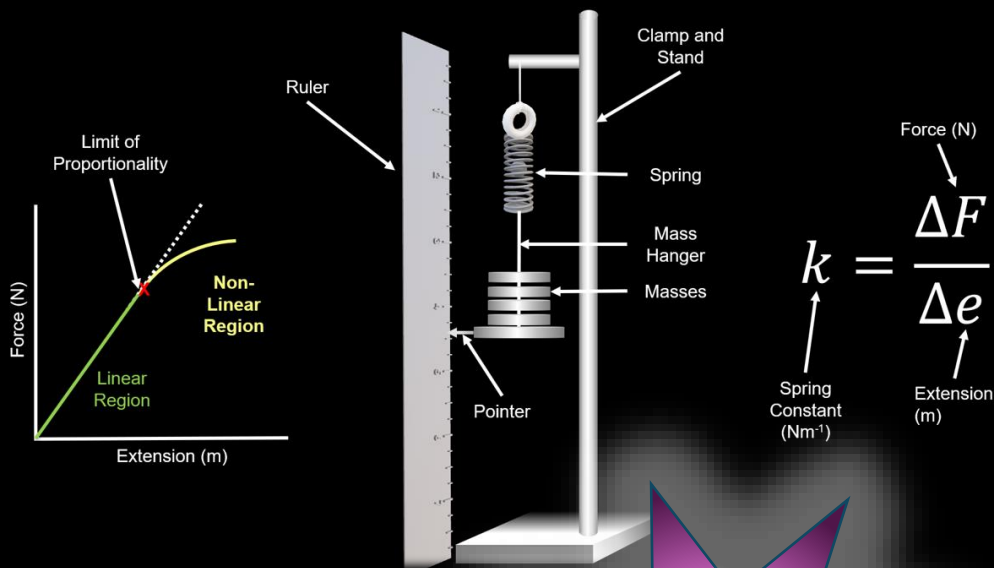


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Required Practical 6 – Force & Extension



Provided in Kit:

Springs
G-clamps



For School to supply:

Metre rule

Suitable pointer

e.g. splint and tape

Weight stack

e.g. 10 N in steps of 1 N

Clamp stands

Clamps and Bosses

Class Set
for up to
30
Students

Scan the QR Code to find out more!



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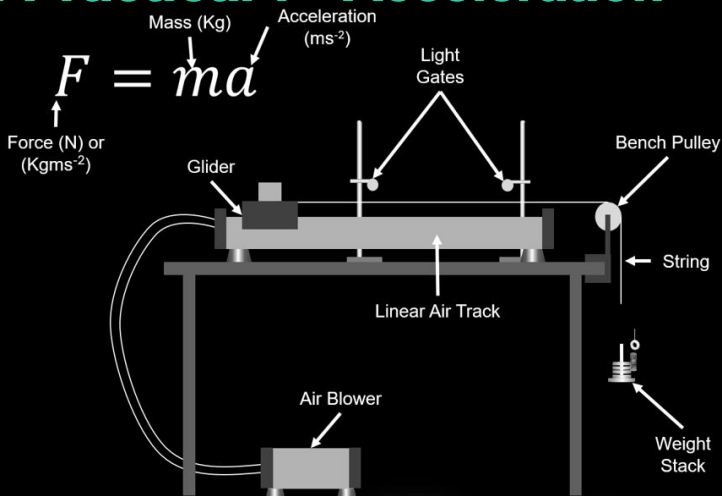
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Required Practical 7 – Acceleration



Full Linear Air Track Kit



Provided in Kit:

2 m Linear Air Track & Accessories

See Instruction Manual for Full kit list.



School to Provide:

The whole kit has all required accessories, there is nothing for the school to provide.

Class Set for up to 30 Students



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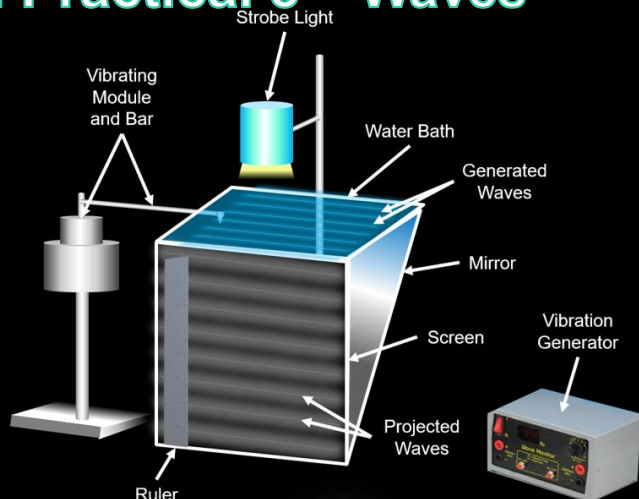
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Required Practical 8 – Waves



Full Ripple Tank Kit



λ = Wavelength (m)

$$v = f\lambda$$

v = Wave Speed (ms^{-1})

f = Frequency (Hz) or (s^{-1})

Provided in Kit:

Ripple Tank
& Accessories

See Experiment Guide
for full kit list



School to Provide:

Water (distilled or
demineralized)
Bucket or tub
Soap

Class Set
for up to
30
Students

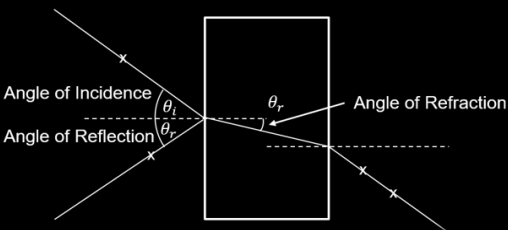
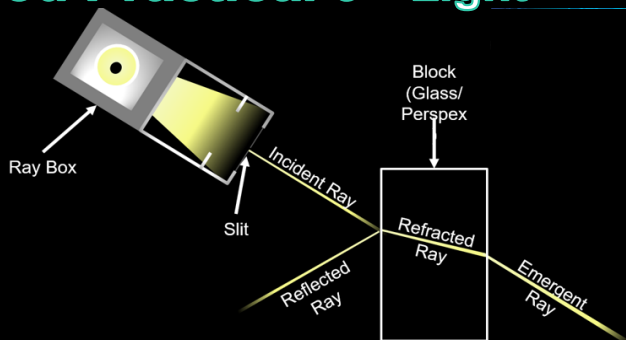


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Required Practical 9 – Light



LAW of Reflection

$$\theta_i = \theta_r$$

LAW of Refraction (Snells Law)

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

Provided in Kit:

- Ray boxes
- Power supplies
- Collimating slits
- Lens
- rectangular transparent blocks – glass & acrylic



For School to supply:

30 cm rulers

Protractors

Plain A3 paper.

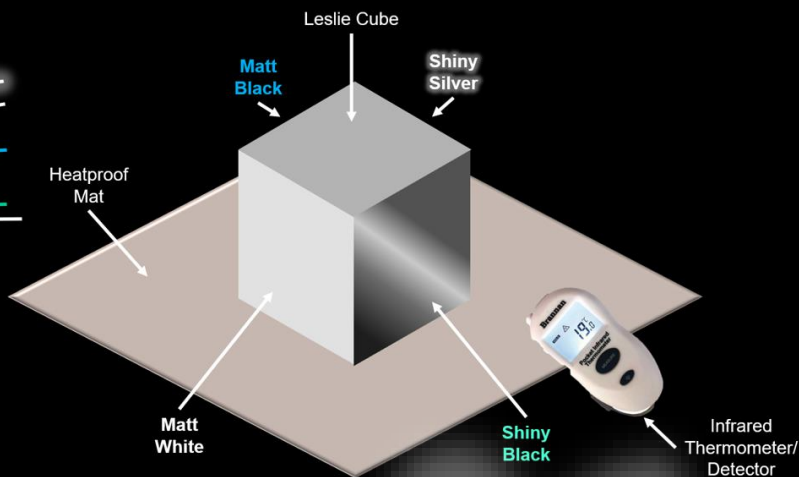
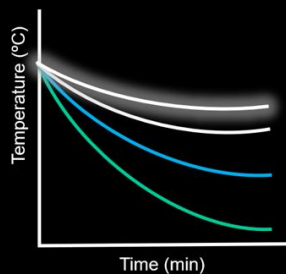
Class Set
for up to
30
Students



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Understanding Physics

Equipment Library - GCSE Physics (AQA) Required Practical 10 – Radiation & Absorption



Provided in Kit:

Leslie cubes
Infrared Thermometer



For School to supply:

Kettle
Heatproof mat

Class Set
for up to
30
Students

