

Year 11 Electricity Investigation

Some topics you may consider are:

Electrical fire hazards in cars

Resistors/relays/fuses/ignition coils/batteries/voltage regulators/RCDs

An application of Static Electricity eg Photocopiers

How to reduce static build up

The cost of power

Lightning rods and lightning

Insulation properties of materials

Electric hot water systems

The workings of an appliance eg hair drier/toaster/kettle/fluorescent tube

Use of Super conductors

Rechargeable batteries

Government regulations on electricity use and the physics behind the rules

How to build a torch

The effects of electricity on the human body

Electrical safety

Design and operation of solar cars

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