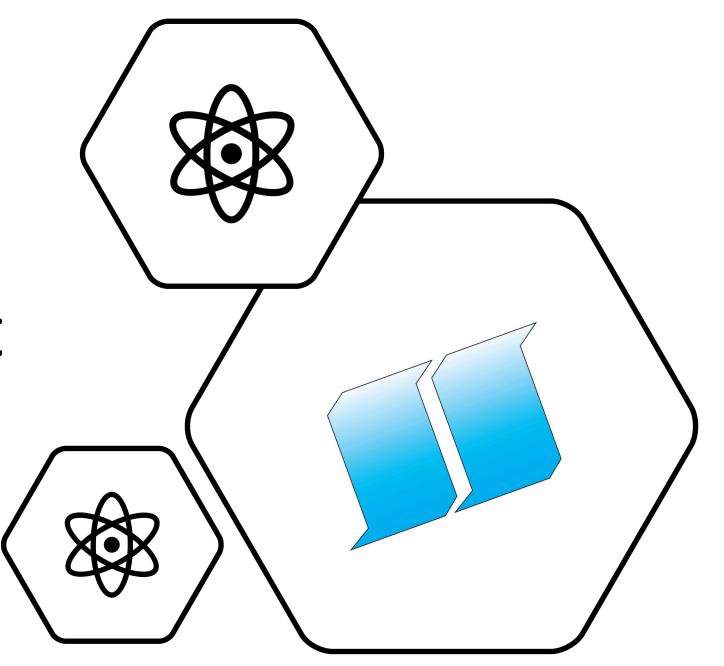


Paper 1 (combined)

Specific heat capacity

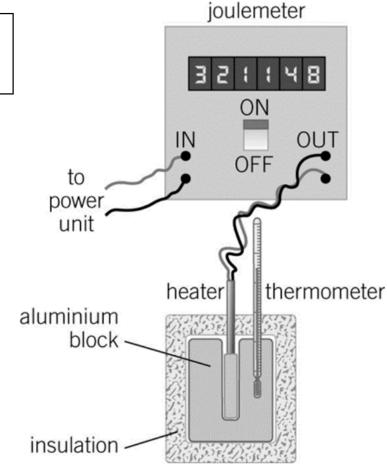


Paper 1 - Specific Heat Capacity

- metal block with two holes
- thermometer
- heater
- power supply
- insulation to wrap around the blocks
- joulemeter
- balance to determine the mass of the blocks
- heatproof mat
- 1. Measure the mass of the metal block with the balance
- 2. Zero the joule meter
- 3. Take the temperature of the block
- 4. Turn on the power supply
- 5. Heat by only around 10°C to reduce heat losses
- 6. Turn off the supply and record the highest temperature reached
- 7. Record the electrical energy input from the joulemeter



Care with hot heater





 $specific \ heat \ capacity = \frac{energy \ tranferred}{mass \ x \ temperature \ rise}$