Body Temperature
• normal 36.8°C; range 36.5–37.2°C
• death below 25°C
• hypothermia 32°C
• fever above 37.2°C
• heat exhaustion or heat stroke likely if above 38°C in absence of infection
• high temperatures that above 43°C would lead to death

Breathing:
• breathing rate 12–15 breaths per min
• tidal volume 400–500 cm³
• vital capacity (male) 4.8 dm³
• vital capacity (female) 3.1 dm³
• peak flow 400–600 dm³ min⁻¹

Blood Pressure:
• 18-year-old male 120/80 mm Hg
• 20-year-old male 125/80 mm Hg
• 40-year-old male 135/85 mm Hg

Females usually have slightly lower blood pressure:
• 20-year-old female 123/80 mm Hg
• 40-year-old female 133/85 mm Hg

Aerobic Respiration
Equation
Glucose + Oxygen → Carbon Dioxide + Water (+ATP)
C₆H₁₂O₆ + 6O₂ → 6CO₂ + 6H₂O

GPE = mass x gravitational field strength x height

Kinetic Energy = 0.5 x mass x velocity²

KE = 0.5 x m x v²

m = KE ÷ (0.5 x v²)

v = √(KE ÷ 0.5 x m)

Power = Work Done ÷ Time Taken

Efficiency = Useful Energy Output ÷ Total Energy Input

Kilowatt hour (kWh) = Power (kW) x Time (hours)

Cost (pence) = Kilowatt Hours (kWh) x Price per unit (pence)