force applied to a spring
work done
weight

resultant force
acceleration
distance travelled

gravitational potential energy
kinetic energy
momentum

Don't forget the SI units!
potential difference = current

efficiency  =  weight  =  mass

W = N

Don’t forget!

charge flow

wave speed

efficiency

power = (current)

Don’t forget!

power = work done = force × distance

acinet

force applied to a spring = spring constant

resultant force = mass × acceleration

POTENTIAL!DIFFERENCE

ENERGY!TRANSFER

Knowledge!!

gravitational field strength = N/kg

Don’t forget!

kinetic energy = 0.5 × mass × velocity²

total power input × time = power

power = current × potential difference

power = energy transfer / time

energy transfer = work done = force × extension

energy transfer = work done = force × distance

power = W / t

potential difference

Don’t forget!

Don’t forget!

Don’t forget!

Don’t forget!
### Energy Transferred

**Energy transferred** = **Power** × **Time**

\[ E = P \times t \]

- **Units:** J (Joules), W (Watts), s (Seconds)

*Don’t forget the SI units*

### Work Done

**Work done** = **Force** × **Distance**

\[ W = F \times s \]

- **Units:** J (Joules), N (Newtons), m (Meters)

*Don’t forget the SI units*

### Force Applied to a Spring

**Force applied to a spring** = **Spring constant** × **Extension**

\[ F = k \times e \]

- **Units:** N (Newtons), N/m (Newton per meter), m (Meters)

*Don’t forget the SI units*

### Density

**Density** = **Mass** / **Volume**

\[ \rho = \frac{m}{v} \]

- **Units:** kg/m³ (Kilograms per cubic meter), kg/l (Kilograms per liter), g/cm³ (Grams per cubic centimeter)

*Don’t forget the SI units*
density

energy transferred

energy transferred