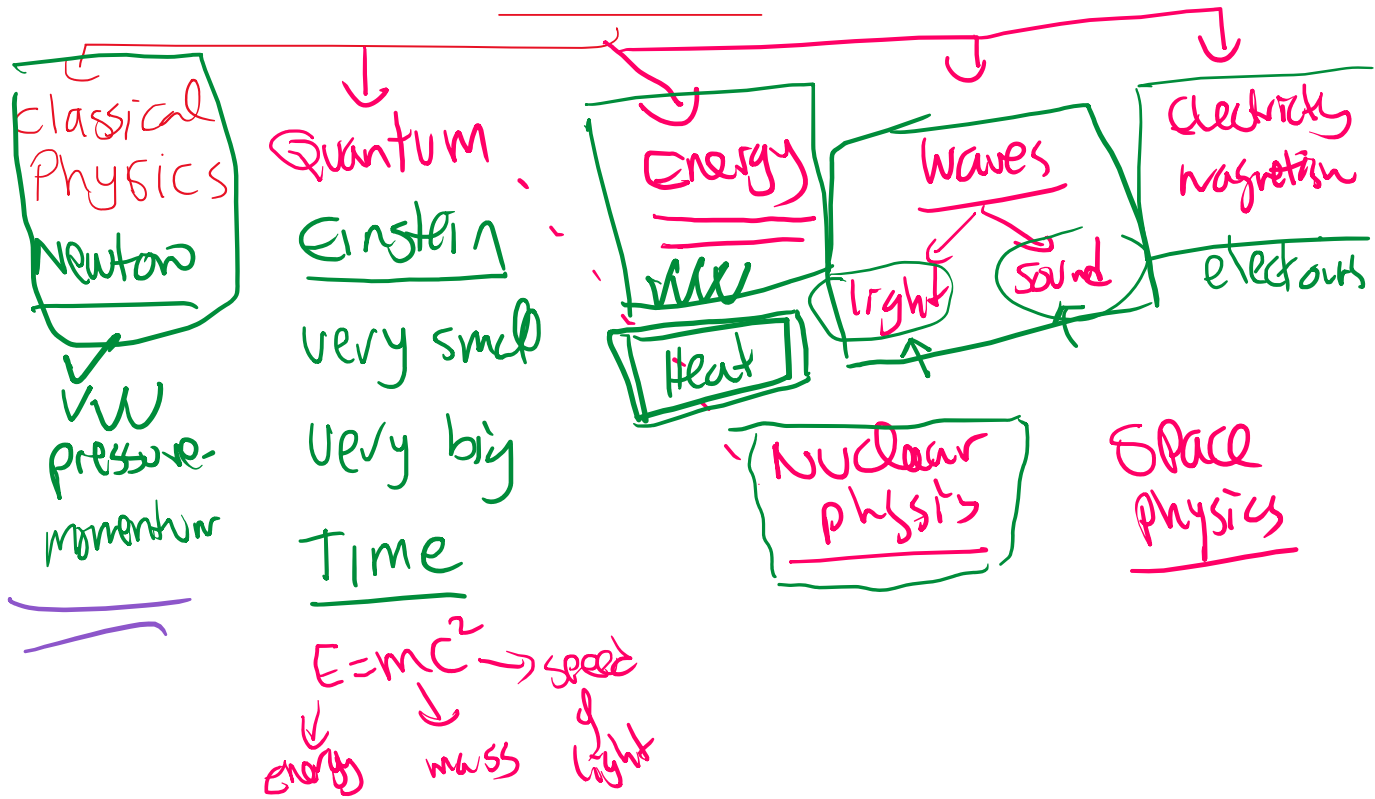


General

> Physics <



① foundations —
motion / forces
Density - mass weight

② Energy - heat - Thermodynamics ✓✓

③ pressure —

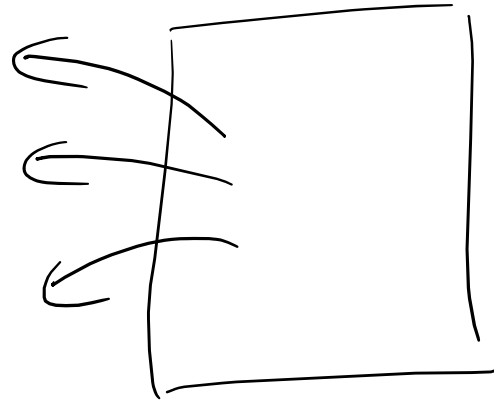
④ waves —

⑤ nuclear

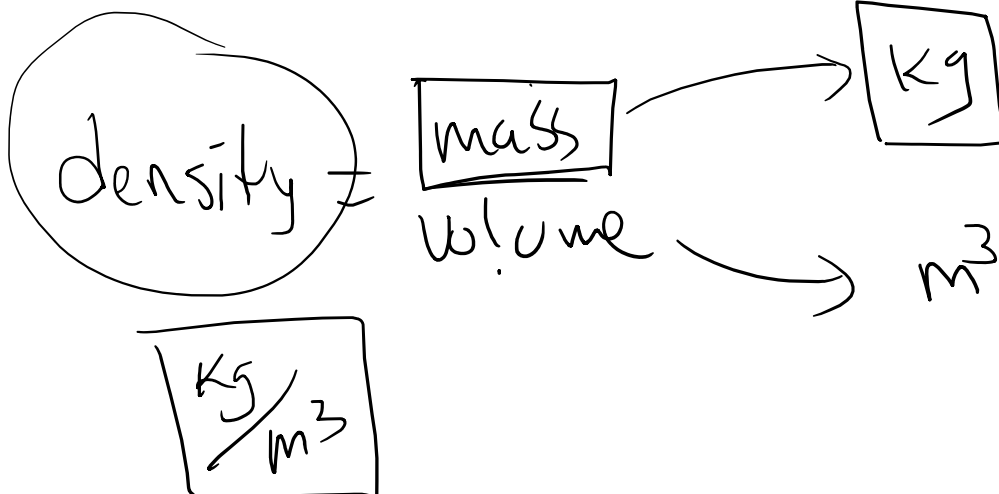
⑥ electricity —

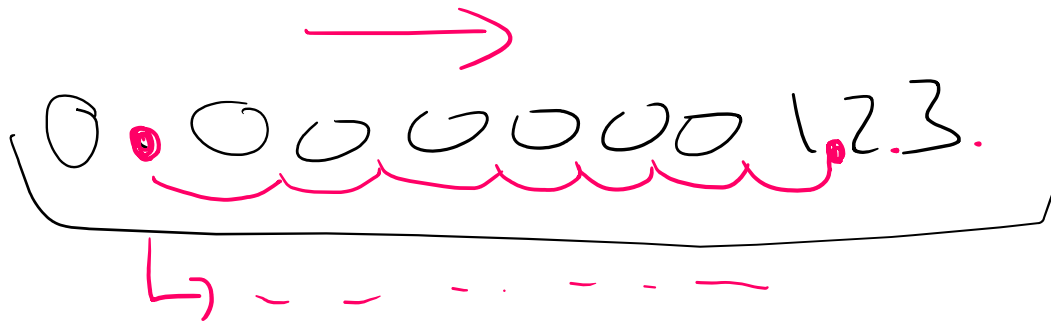
units

meter
second
kilogram

convert

$$\begin{array}{c}
 \boxed{30 \text{ mm}} \Rightarrow \frac{30}{1000} \\
 = \boxed{0.003 \text{ M}}
 \end{array}$$

Derived



$$\begin{array}{ccc}
 & & B \\
 A & \times & 10 \\
 \downarrow & & \\
 1-9 & & -7 \\
 1.23 & \times & 10
 \end{array}$$

Standard notation

Karim

Nour

1 2 3 4 5

1 2 3 4 5

$\underline{0} \quad \underline{2} \quad \underline{3} \quad \underline{4} \quad \underline{5}$
 ↓ most significant ↓ least significant
 16,000 Lf

1 2 3 4 4
 1 Lf

203 | 48

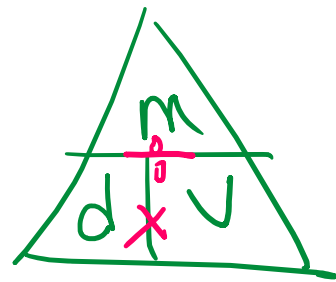
Significant

 203×10^2
 203×10^2

$$A = C \times B$$

$$B = \frac{A}{C}$$

$$d = \frac{m}{v}$$



Motion

mass - weight - density -

forces

forces

Hooke's law Springs

friction -

circular motion

moments

momentum

Energy - work - power

pressure.

Heat

Waves → general

↳ light

↳ sound

electricity

nuclear

space
