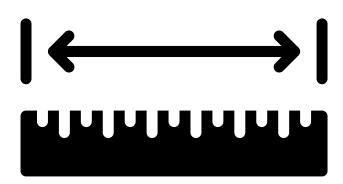
Fund. Mecânica Medição

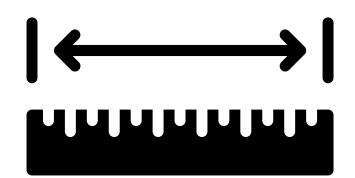
Jeiverson Christian

Medição mummum

Comprimento

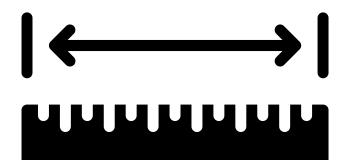


Comprimento Tempo

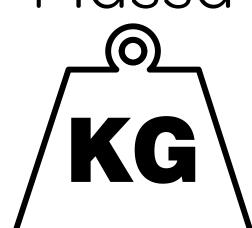




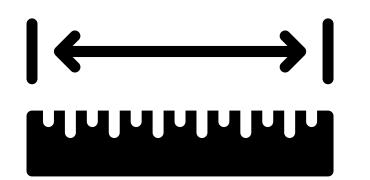
Comprimento Tempo Massa





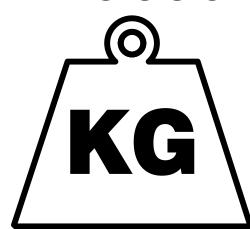


Comprimento Tempo





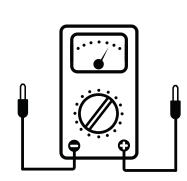
Massa



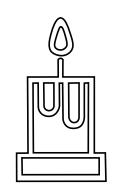
Temperatura

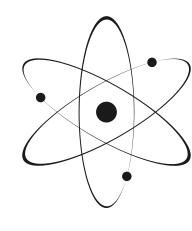


Corrente Elétrica

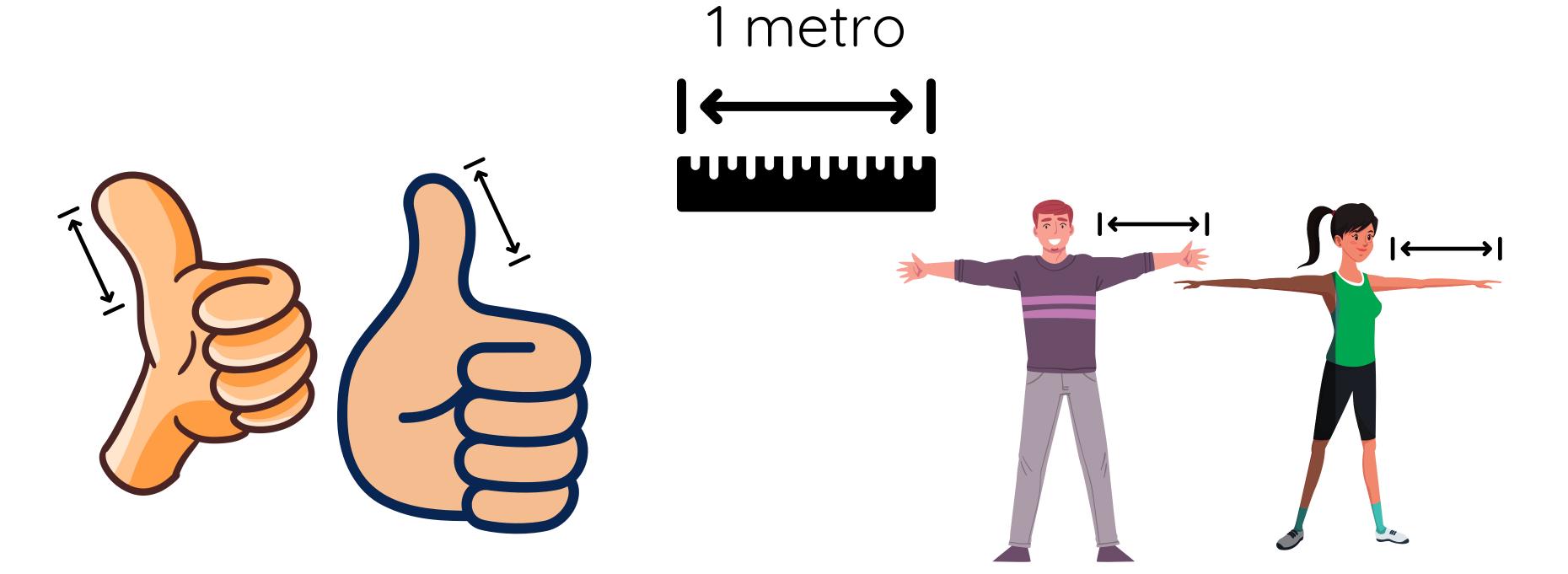


Intensidade Luminosa





Padrão



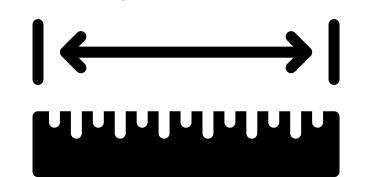
S.I.

Sistema Internacional de medidas



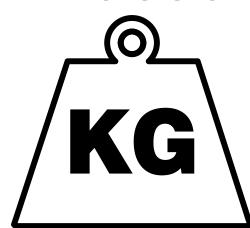
Fundamentais

Comprimento Tempo





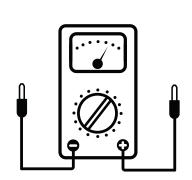
Massa



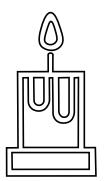
Temperatura

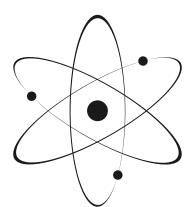


Corrente Elétrica

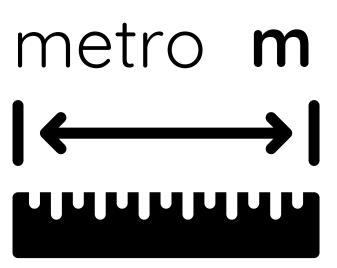


Intensidade Luminosa





Fundamentais





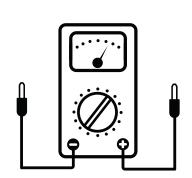




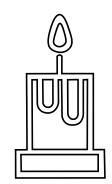
Temperatura

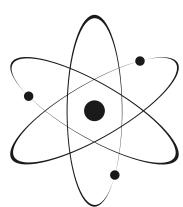


Corrente Elétrica



Intensidade Luminosa



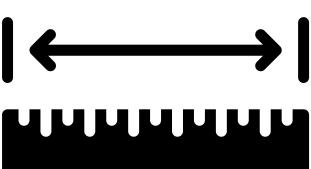


Fundamentais

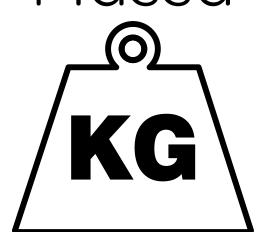
metro **m**

segundo s

Massa



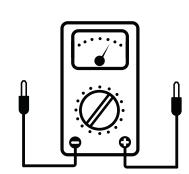




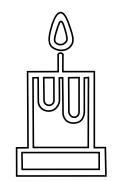
Temperatura

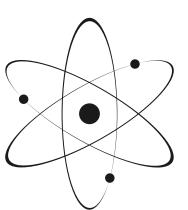


Corrente Elétrica



Intensidade Luminosa

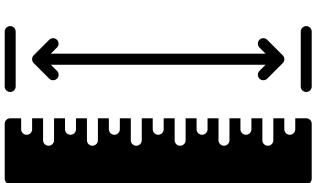




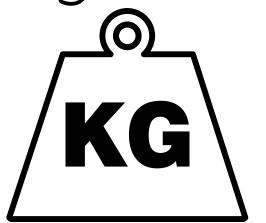
Fundamentais

metro **m**

segundo s Quilograma kg



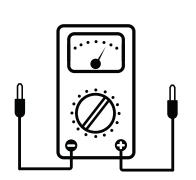




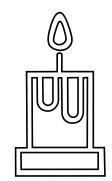
Temperatura

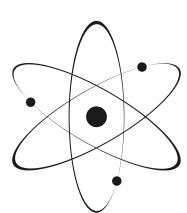


Corrente Elétrica



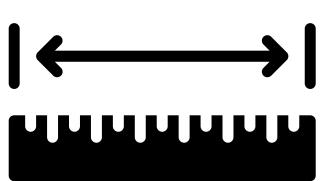
Intensidade Luminosa



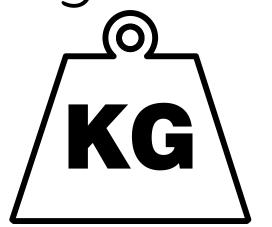


Fundamentais

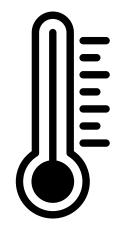
metro **m** segundo **s** Quilograma **kg**



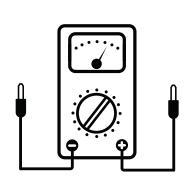




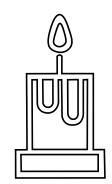
kelvin k

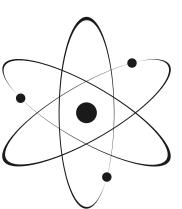


Corrente Elétrica



Intensidade Luminosa



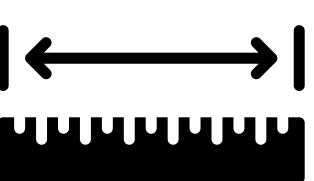


Fundamentais

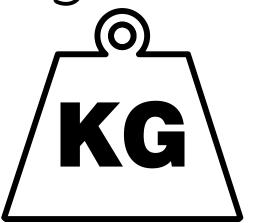
metro **m**



segundo s Quilograma kg



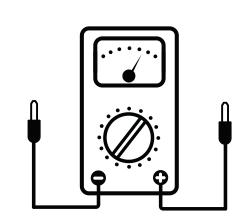




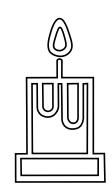
kelvin k

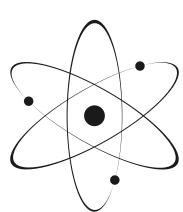


ampère A



Intensidade Luminosa



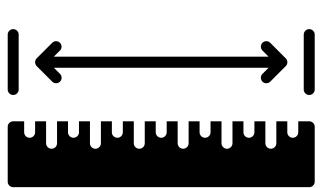


Fundamentais

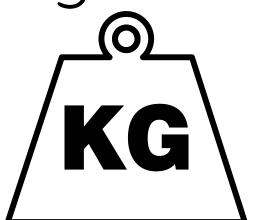
metro **m**



segundo s Quilograma kg



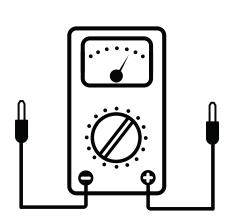




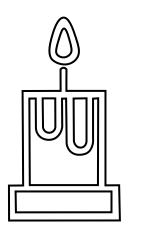
kelvin k

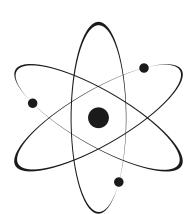


ampère A



candela cd

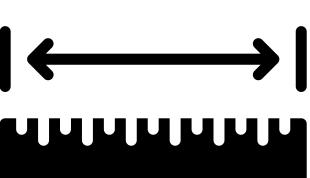




Fundamentais

metro **m**

segundo s Quilograma kg





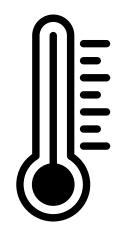


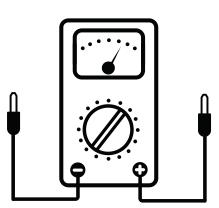
kelvin k

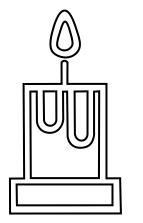


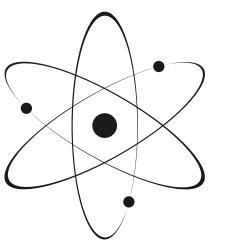












Unidades Derivadas

watt W

$$1 W = 1 kg. m^2 / s^3$$

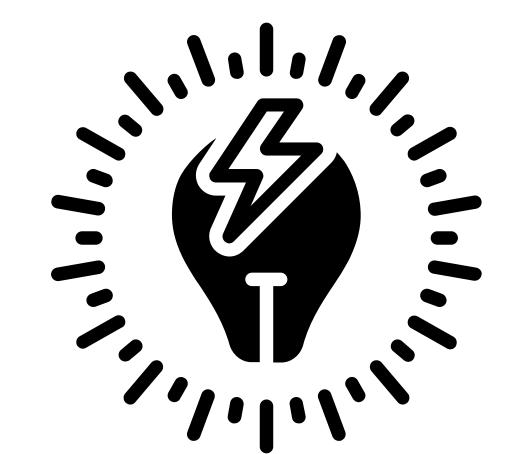


TABELA 1-2

Prefixos das Unidades do SI

Fator	Prefixoa	Símbolo			
10^{24}	iota-	Y	10^{-1}	deci-	
10^{21}	zeta-	Z	10^{-2}	centi-	
10^{18}	exa-	E	10^{-3}	mili-	1
10^{15}	peta-	P	10-6	micro-	1
10^{12}	tera-	T	10^{-9}	nano-	1
109	giga-	\mathbf{G}	10^{-12}	pico-)
106	mega-	M	10^{-15}	femto-	
10^{3}	quilo-	k	10^{-18}	ato-	
10^{2}	hecto-	h	10^{-21}	zepto-	- 2
10^{1}	deca-	da	10^{-24}	iocto-	3

5 **k**m

 $5 \text{ km} = 5 \times 10^3 \text{ m}$

```
5 \text{ km} = 5 \times 10^3 \text{ m}
= 5 \times 1000 \text{ m}
= 5000 \text{ m}
```

```
5 \text{ km} = 5 \times 10^3 \text{ m} 2 fs
= 5 \times 1000 \text{ m}
= 5000 m
```

```
5 \text{ km} = 5 \times 10^3 \text{ m} 2 \text{ fs} = 2 \times 10^{-15} \text{ s}
= 5 \times 1000 \text{ m}
= 5000 \text{ m}
```

$$5 \text{ km} = 5 \times 10^3 \text{ m}$$

= $5 \times 1000 \text{ m}$
= 5000 m

$$2 fs = 2 x 10^{-15} s$$
$$= 2 s$$
$$10^{-15}$$

$$5 \text{ km} = 5 \times 10^3 \text{ m}$$

= $5 \times 1000 \text{ m}$
= 5000 m

$$5 \text{ km} = 5 \times 10^3 \text{ m}$$

= $5 \times 1000 \text{ m}$
= 5000 m

$$1 \min = 60 s$$

$$5 \min = ? s$$

$$1 \min = 60 s$$

$$5 \min = 5 \times 60 \text{ s}$$

$$1 \min = 60 s$$

$$5 \min = 5 \times 60 \text{ s}$$

$$5 \text{ min} = 300 \text{ s}$$

Outro Exemplo

$$23 \text{ rides / h} = 23 \times 4 \text{ stadia / } 60 \text{ min}$$

$$23 \text{ rides / h} = 23 \times 4 \text{ stadia / 60 min}$$
$$= 23 \times 4 \times 6 \text{ plethra / 60 x 60 s}$$

23 rides / h =
$$4,722666...$$
 m/s $\approx 4,7$ m/s

23 rides / h =
$$4,722666...$$
 m/s $1 \text{ km} = 10^3 \text{ m}$ $\approx 4,7 \text{ m/s}$

23 rides / h =
$$4,722666...$$
 m/s $1 \text{ km} = 10^3 \text{ m}$ $\approx 4,7 \text{ m/s}$ $10^{-3} \text{ x } 10^3 = 1$

23 rides / h = 4,722666... m/s 1 km = 10³ m
$$\approx 4.7$$
 m/s 10^{-3} x 10^3 = 1 ≈ 4.7 x 1 m/s ≈ 4.7 x 10^{-3} x 10^3 m/s

23 rides / h = 4,722666... m/s 1 km = 10³ m

$$\approx 4.7 \text{ m/s}$$
 10³ x 10³ = 1
 $\approx 4.7 \text{ x 1 m/s}$
 $\approx 4.7 \text{ x 10}$ 3 m/s
 $\approx 4.7 \text{ x 10}$ 3 km/s

Mudança da Unidades

Outro Exemplo

 $1255 \text{ cran} = 1255 \times 170,474 \text{ L}$

$$1255 \text{ cran} = 1255 \times 170,474 \text{ L}$$

= $213944,87 \text{ L}$

$$1255 \text{ cran} = 1255 \times 170,474 \text{ L}$$

= $213944,87 \text{ L}$

$$1 L = 1 dm^3$$

$$1255 \text{ cran} = 1255 \times 170,474 \text{ L}$$

= $213944,87 \text{ L}$

$$1 L = 1 dm^{3}$$
 $1 dm = 10 cm$

$$1255 \text{ cran} = 1255 \times 170,474 \text{ L}$$

= $213944,87 \text{ L}$

$$1 L = 1 dm^3$$

$$1 \, dm = 10 \, cm$$

 $1 \text{ dm}^3 = 10 \text{ cm} \times 10 \text{ cm} \times 10 \text{ cm}$

$$1 L = 1000 cm^3$$

$$1255 \text{ cran} = 1255 \times 170,474 \text{ L}$$

= $213944,87 \text{ L}$
= $213944,87 \times 1000 \text{ cm}^3$

$$1 L = 1 dm^{3}$$
 $1 dm = 10 cm$
 $1 dm^{3} = 10 cm x 10 cm x 10 cm$
 $1 L = 1000 cm^{3}$

$$1255 \text{ cran} = 1255 \times 170,474 \text{ L}$$

= $213944,87 \text{ L}$
= 213944870 cm^3

 $1255 \text{ cran} = 1255 \times 170,474 \text{ L}$ = 213944,87 L= 213944870 cm^3 1 covido = 48,26 cm

1255 cran = 1255 x 170,474 L= 213944,87 L

 $= 213944870 \text{ cm}^3$

1 covido = 48,26 cm

1 / 48,26 covido = 1 cm

 $1255 \text{ cran} = 1255 \times 170,474 \text{ L}$

= 213944,87 L

 $= 213944870 \text{ cm}^3$

1 covido = 48,26 cm

1 / 48,26 covido = 1 cm

 $(1/48,26)^3$ covido³ = 1 cm³

1255 cran = 1255 x 170,474 L 1 covido = 48,26 cm
= 213944,87 L 1 / 48,26 covido = 1 cm
= 213944870 cm³ (1 / 48,26)³ covido³ = 1 cm³
= 213944870 covido³

$$(48,26)^3$$

$$1255 \text{ cran} = 1255 \times 170,474 \text{ L}$$

= $213944,87 \text{ L}$

 $= 213944870 \text{ cm}^3$

= 213944870 covido³ = 1903,44321289 covido³

 $1255 \text{ cran} = 1903,44321289 \text{ covido}^3$ $\implies 1903 \text{ covido}^3$ $\implies 1,903 \text{ x } 10^3 \text{ covido}^3$



The End

