

Electric current and electrical power

AST

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Complete this Concept Review so you can keep a record of what you have learned.

Definitions

- Dynamic electricity describes _____

- Electric current is _____

- Ohm's law states _____

- Electrical power is _____

Unit of measurement: _____ Symbol: _____

1 W =

Characteristics and forms of electric current

Characteristic (symbol)	Definition	Unit of measurement (symbol)	Equation
Current intensity (<i>I</i>)	_____ _____ _____ _____		$1 \text{ A} = \frac{1 \text{ C}}{1 \text{ s}}$
	_____ _____ _____ _____		
	_____ _____ _____ _____		



Mathematical formulas and units of measurement

Formula for determining the current intensity in a circuit:

where _____

Formula for determining the potential difference between two points in a circuit:

where _____

Formula for Ohm's law:

where _____

Formula expressing electrical power as a function of work:

where _____

Formula expressing electrical power as a function of potential difference and current intensity:

where _____

Formula expressing the relationship between electrical power and electrical energy:

where _____

