

## CHAPTER

## 22

## Study Guide

## Current Electricity

## Vocabulary Review

Write the term that correctly completes the statement. Use each term once.

ampere

electric current

resistor

battery

kilowatt-hour

series connection

conventional current

parallel connection

superconductor

electric circuit

resistance

- \_\_\_\_\_ A(n) \_\_\_\_\_ is a material with zero resistance.
- \_\_\_\_\_ The \_\_\_\_\_ of a wire determines how much current will flow through the wire when a voltage is applied.
- \_\_\_\_\_ The \_\_\_\_\_ is the flow of charged particles.
- \_\_\_\_\_ In a(n) \_\_\_\_\_, there is only one path for the current.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is a unit of energy.
- \_\_\_\_\_ In a(n) \_\_\_\_\_, there is more than one path for the current.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is the unit of current.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is a closed loop in which electrons can move.
- \_\_\_\_\_ A(n) \_\_\_\_\_ converts chemical energy to electrical energy.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is the flow of positive charge.
- \_\_\_\_\_ A(n) \_\_\_\_\_ is a device designed to have a specific resistance.

## Section 22.1

## Current and Circuits

In your textbook, read about electric circuits on pages 591–593.

For each statement below, write true or rewrite the italicized part to make the statement true.

- \_\_\_\_\_ Negative charge flows from a higher potential to a lower potential.
- \_\_\_\_\_ The flow of *electrons* is called conventional current.

# Current Electricity 22 Study Guide Answers

**Hussin A.Rothana**



## **Current Electricity 22 Study Guide Answers:**

Revise AS & A2 Physics Study Guide Graham Booth, 2008

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the point slope form is very useful when you don't have your y intercept it is used to write equations when you only have your slope and a point point slope form  $y - a = m(x - b)$  for example your slope  $m$  is 3 and your point  $a, b$  is 9, 10 you would substitute your y coordinate for  $a$  and your x coordinate for  $b$

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point slope form in point slope form which is written like this  $y - y_1 = m(x - x_1)$   $y_1$  is the y value of the known point on the line  $m$  is the slope and  $x_1$  is the x value of the

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$y = kx + h$  where  $m$  is the slope of the line and  $h$  is a point on the line any point works to write an equation in point slope form given a graph of that equation first determine the slope by picking two points then pick any point on the line and write it as an ordered pair  $(h, k)$

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point slope is a specific form of linear equations in two variables  $y = m(x - a) + b$  when an equation is written in this form  $m$  gives the slope of the line and  $a, b$  is a point the line passes through this form is derived from the slope formula want to learn more about point slope form check out this video

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