

This practice test is designed to help you determine what concepts you DO know and more importantly what concepts you DO NOT know!

Go through the practice test THREE times:

(1) On your own (2) With your notes (3) With another student



Each time, if you cannot answer a question, draw a circle around it to identify that you should review this concept when preparing for the test.

Matching: Match the following source with the type of energy associated. Each type of energy can be used once (1 mark each)

- | | |
|------------------------------------|------------------|
| 1. ____ A rollercoaster at the top | a. Elastic |
| 2. ____ A light bulb | b. Chemical |
| 3. ____ An apple | c. Electric |
| 4. ____ An outlet | d. Gravitational |
| 5. ____ A tennis racket | e. Solar |

Short Answers

1. Explain the relationship between negative charges, positive charges, electrons, and protons. Describe what sometimes happens in terms of charges when you rub two different types of materials together (2 marks)

2. What are the 3 main parts of an electrochemical cell? Describe each part (3 marks)

3. What are 3 necessary components of a functioning circuit? Describe the function of each component (3 marks)

4. Complete the following table (3 marks)

	Symbol	Unit
Current		
Voltage		
Resistance		

5. How does having a load prevent a short circuit? (2 marks)

6. What is the purpose of having a switch in a circuit? (2 marks)