

Introduction and
Acknowledgements

Basic Electricity:
Concepts

Basic Electrical
Properties

Simple Circuits

Ohm's Law

AC Current

Week 1 Resources and
Evaluation

✓ **Reading:** Basic Electricity
(OPTIONAL) Resources
30 min

✓ **Quiz:** Basic Electricity
10 questions



QUIZ • 30 MIN

Basic Electricity



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Basic Electricity

Graded Quiz • 30 min

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Basic Electricity

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1. Determine whether the following statement is true or false.

1 / 1 point

Electricity is understood to be a form of energy comparable to other forms such as heat and light.

☒ True

☐ False



Correct

Correct!

2. Please pick the best answer(s) to the following question:

1 / 1 point

Materials that contain very few free electrons are called?



2. Please pick the best answer(s) to the following question:

1 / 1 point

Materials that contain very few free electrons are called?

☐ None of the above

☒ Insulators

✓ Correct
Correct!

☒ Non-conductors

✓ Correct
Correct!

☐ Conductors

3. The flow of electrons in a conductor go from:

1 / 1 point

☐ North to South

☐ East to West

☐ positive to negative

☒ negative to positive

✓ Correct
Correct!



4. A power supply provides power supplied from the AC network.

1 / 1 point

What is the specified voltage in North America currently?

- ☒ 120V
- ☐ 110V
- ☐ 100V
- ☐ 130V

✓ Correct
Correct!

5. Choose the best option(s) below that are included in a simple circuit:

1 / 1 point

- ☐ A switch to open/close the circuit
- ☐ Connections between the voltage source and the load
- ☒ All of the above
- ☐ Consumer load
- ☐ Voltage source

✓ Correct
Correct!

6. Please choose the best answer to fill in the blank.

1 / 1 point

A voltage can only exist between _____ points.



6. Please choose the best answer to fill in the blank.

1 / 1 point

A voltage can only exist between ____ points.

- ☐ three
- ☐ six
- ☐ four
- ☒ two

✓ Correct
Correct!

7. Please fill in the blanks to complete the sentence.

1 / 1 point

1W is the power generated by ____ at a DC Voltage of ____ .

- ☐ 1V / 1A
- ☐ 2V / 2A
- ☒ 1A / 1V
- ☐ 2A / 2V

✓ Correct
Correct!

8. Ohm's Law looks at the relationship between:

1 / 1 point

- ☐ None



Basic Electricity

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8. Ohm's Law looks at the relationship between:

1 / 1 point

☐ None

☒ R

✓ Correct

☒ V

✓ Correct

☒ I

✓ Correct

9. Please determine whether the follow statement is true or false.

1 / 1 point

A DC voltage is a voltage of constant magnitude and direction.

☐ False

☒ True

✓ Correct
Correct!

10. The current produced by such voltage in a load (see question 9) is called the:

1 / 1 point



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✓ Correct

☒ V

✓ Correct

☒ I

✓ Correct

9. Please determine whether the follow statement is true or false.

1 / 1 point

A DC voltage is a voltage of constant magnitude and direction.

☐ False

☒ True

✓ Correct
Correct!

10. The current produced by such voltage in a load (see question 9) is called the:

1 / 1 point

☐ alternating current (AC)

☒ direct current (DC)

✓ Correct
Correct!