

Automotive Electricity and Electronics

Chapter 4 – Electrical Fundamentals

Lesson Plan



CHAPTER SUMMARY:

1. Electricity, How Electrons Move Through a Conductor, and Unit of Electricity
 2. Sources of Electricity, Conductors and Resistance, and Resistors
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OBJECTIVES:

1. Discuss the fundamentals of electricity and explain how electrons move through a conductor.
 2. Explain the units of electrical measurement, and discuss the relationship among volts, amperes, and ohms.
 3. Discuss the different sources of electricity.
 4. Explain conductors and resistance, and describe the function of resistors.
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RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))

1. Task Sheet: Electrical Fundamentals
 2. Chapter PowerPoint
 3. [Crossword and Word Search Puzzles \(A6\)](#)
 4. [Videos: \(A6\) Electrical/Electronic Systems](#)
 5. [Animations: \(A6\) Electrical/Electronic Systems](#)
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ACTIVITIES:

1. Task Sheet: Electrical Fundamentals
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ASSIGNMENTS:

1. Chapter crossword and word search puzzles from the website.
 2. Complete end of chapter quiz from the textbook.
 3. Complete multiple choice and short answer quizzes downloaded from the website.
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CLASS DISCUSSION:

1. Review and group discussion chapter [Frequently Asked Questions](#) and [Tech Tips](#) sections.
 2. Review and group discussion of the five (5) chapter [Review Questions](#).
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NOTES AND EVALUATION:
