**Automotive Electrical and Engine Performance - 9th edition**

**Ch2: Electrical Fundamentals**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Electricity, How Electrons Move Through a Conductor, Units of Electricity, and Sources of Electricity

2. Conductors and Resistance, and Resistors

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**OBJECTIVES:**

1. Discuss the fundamentals of electricity.

2. Explain how electrons move through a conductor.

3. Explain the units of electrical measurement, and discuss the relationship among volts, amperes, and ohms.

4. Discuss the different sources of electricity.

5. Explain conductors and resistance.

6. Describe the function of resistors. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**RESOURCES:** (All resources may be found at jameshalderman.com)

1. Task Sheet: Electrical Fundamentals

2. Crossword Puzzle and Word Search

3. Videos: (A6) Electrical/Electronic Systems Videos

4. Animations: (A6) Electrical/Electronic Systems Animations

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**ACTIVITIES:**

1. Task Sheet: Electrical Fundamentals

2. Chapter PowerPoint

3. Crossword Puzzle and Word Search

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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. Ten (10) question end of Chapter Quiz.

3. Five (5) end of chapter Review Question for class discussion.

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**NOTES AND EVALUATION:**

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