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

**Ch34: Fuel Pumps, Lines, and Filters**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Fuel Delivery System, Fuel Lines, Electric Fuel Pumps, Fuel Filters, and Fuel-Pump Testing

2. Fuel-Pump Replacement

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**OBJECTIVES:**

1. Discuss the fuel delivery systems, including fuel tanks and rollover leak protection.

2. Discuss the different types of fuel lines.

3 Explain the different types of electric fuel pumps.

4. Describe fuel filters.

5. Describe how to test fuel pumps.

6. Describe how to replace fuel pumps.

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

1. Task Sheet: Fuel Filter Replacement

2. Task Sheet: Fuel-Related Scan Data

3. Task Sheet: Fuel Pump Current Draw Test

4. Task Sheet: Fuel Pump Testing

5. Crossword Puzzle and Word Search

6. Videos: (A8) Engine Performance Videos

7. Animations: (A8) Engine Performance Animations

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**ACTIVITIES:**

1. Task Sheet: Fuel Filter Replacement

2. Task Sheet: Fuel-Related Scan Data

3. Task Sheet: Fuel Pump Current Draw Test

4. Task Sheet: Fuel Pump Testing3. Crossword Puzzle and Word Search

5. Chapter PowerPoint

6. 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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