**Automotive Technology 7th Edition**

**Chapter 47 – Automotive 12-Volt Batteries**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Battery Construction, How a Battery Works, Specific Gravity, and Battery Construction Types

2. Causes and Types of Battery Failure, Battery Rating, and Battery Sizes

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**OBJECTIVES:**

1. Describe the purpose and function of a battery.

2. Describe the construction of a battery.

3. Describe how a battery works.

4. Discuss specific gravity and how charge indicators work.

5. Discuss battery construction types, including valve-regulated batteries.

6. Describe the causes and types of battery failure.

7. List battery ratings.

8. List battery sizes. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Battery Specifications

2. Chapter PowerPoint

3. Crossword Puzzle and Word Search

4. Videos: [(A6) Electrical/Electronic Systems Videos](https://jameshalderman.com/a6_vid_lib_page/)

5. Animations: [(A6) Electrical/Electronic Systems Animations](https://jameshalderman.com/a6_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Battery Specifications

2. 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. Review and group discussion of the five (5) chapter Review Questions.

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**NOTES AND EVALUATION:**

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