

Automotive Engines Theory and Servicing 10th Edition

Chapter 12 – Antifreeze and Coolant

Lesson Plan



CHAPTER SUMMARY:

1. Coolant Fundamentals, Types of Coolant, Water, and Coolant Freezing/Boiling Temperatures
 2. Coolant Testing and Coolant Replacement Issues
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OBJECTIVES:

1. Discuss coolant fundamentals.
 2. Compare the different types of coolant.
 3. Discuss coolant freezing/boiling temperatures and water as coolant.
 4. Discuss coolant testing and coolant replacement issues.
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RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))

1. Task Sheet: Antifreeze and Coolant Information
 2. Chapter PowerPoint
 3. [Crossword Puzzle and Word Search \(A1\)](#)
 4. [Videos: \(A1\) Engine Repair](#)
 5. [Animations: \(A1\) Engine Repair](#)
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ACTIVITIES:

1. Task Sheet: Antifreeze and Coolant Information
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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:
