

Automotive Technology 6th Edition

Chapter 20 – Coolant

Lesson Plan



CHAPTER SUMMARY:

1. Coolant fundamentals and types of coolant
 2. Water and coolant freezing/boiling temperatures
 3. 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 <http://www.jameshalderman.com>)

1. **Task Sheet ASE (A1-D-4) P-1:** Test and Replace Coolant
 2. **Task Sheet ASE (A1-D-4) P-1:** Coolant Flush
 3. Chapter PowerPoint
 4. Chapter Crossword Puzzle and Word Search
 5. Animations: Coolant Refractometer
 6. Videos: When will your coolant freeze? (time 5:00)
 7. Videos: Coolant testing (time 2:11)
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ACTIVITIES:

1. **Task Sheet ASE (A1-D-4) P-1:** Have students complete Test and Replace Coolant Task Sheet.
 2. **Task Sheet ASE (A1-D-4) P-1:** Have students complete Coolant Flush Task Sheet.
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ASSIGNMENTS:

1. Chapter crossword and word search puzzles.
 2. Complete end of chapter 10 question quiz.
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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: