**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>) Internet access required to hyperlink.

**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. Videos: [(A1) Engine Repair Videos](https://jameshalderman.com/a1_vid_lib_page/)

6. Animations: [(A1) Engine Repair Animations](https://jameshalderman.com/a1_anim_lib_page/)

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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:**

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