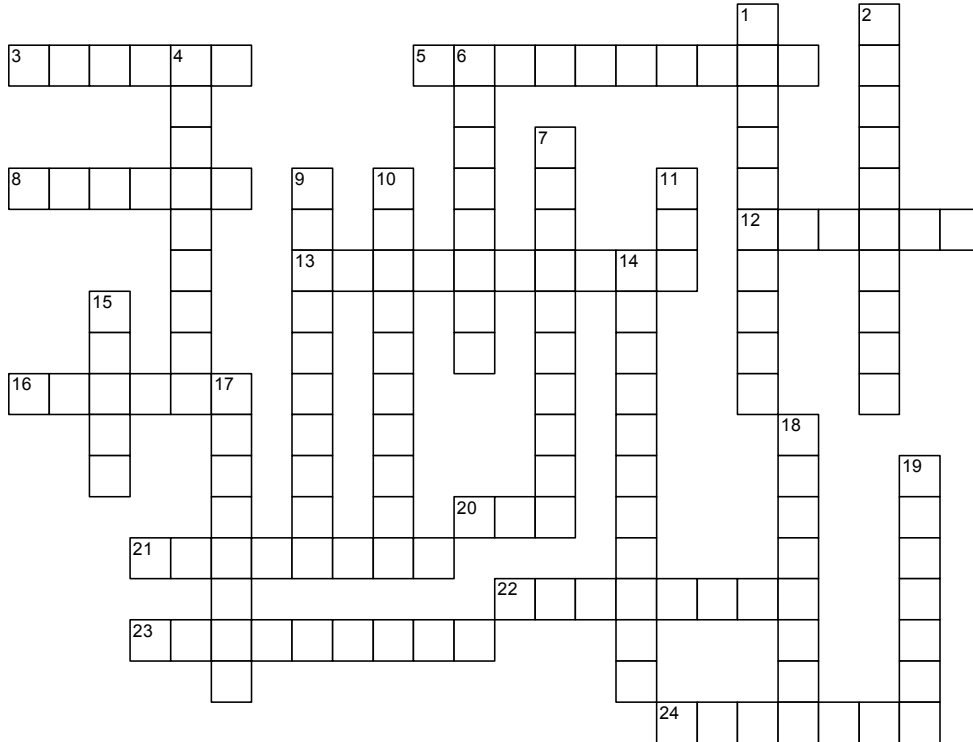


Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## Cooling System Operation and Diagnosis



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### Across

- 3 Cool engine surfaces cause this
- 5 Coolant boiling at the water pump inlet
- 8 Transmission oil coolers are located in this tank of the radiator
- 12 Increases air flow through the radiator
- 13 Abnormal combustion
- 16 Allows coolant to flow when the thermostat is closed
- 20 Used to check for coolant leaks
- 21 \_\_\_\_\_ timing can cause an engine to overheat
- 22 Heat is given up to the outside air here
- 23 \_\_\_\_\_ glycol is known for being less toxic than regular antifreeze
- 24 \_\_\_\_\_ cooling means coolant flows from the radiator to the cylinder head

### Down

- 1 Rapid oxidation process
- 2 Controls minimum normal temperature of the engine
- 4 Coolant flows through these in the radiator
- 6 Used to make radiators
- 7 Used to heat the passenger compartment
- 9 Used to test freeze protection of coolant
- 10 Raises boiling point of coolant
- 11 Moves air across the radiator at low vehicle speeds
- 14 Common cause of engine failure
- 15 Radiator hose at the top of the radiator
- 17 Can be used to read actual temperature of the coolant
- 18 Heat helps \_\_\_\_\_ fuel
- 19 High temperatures cause oil to \_\_\_\_\_