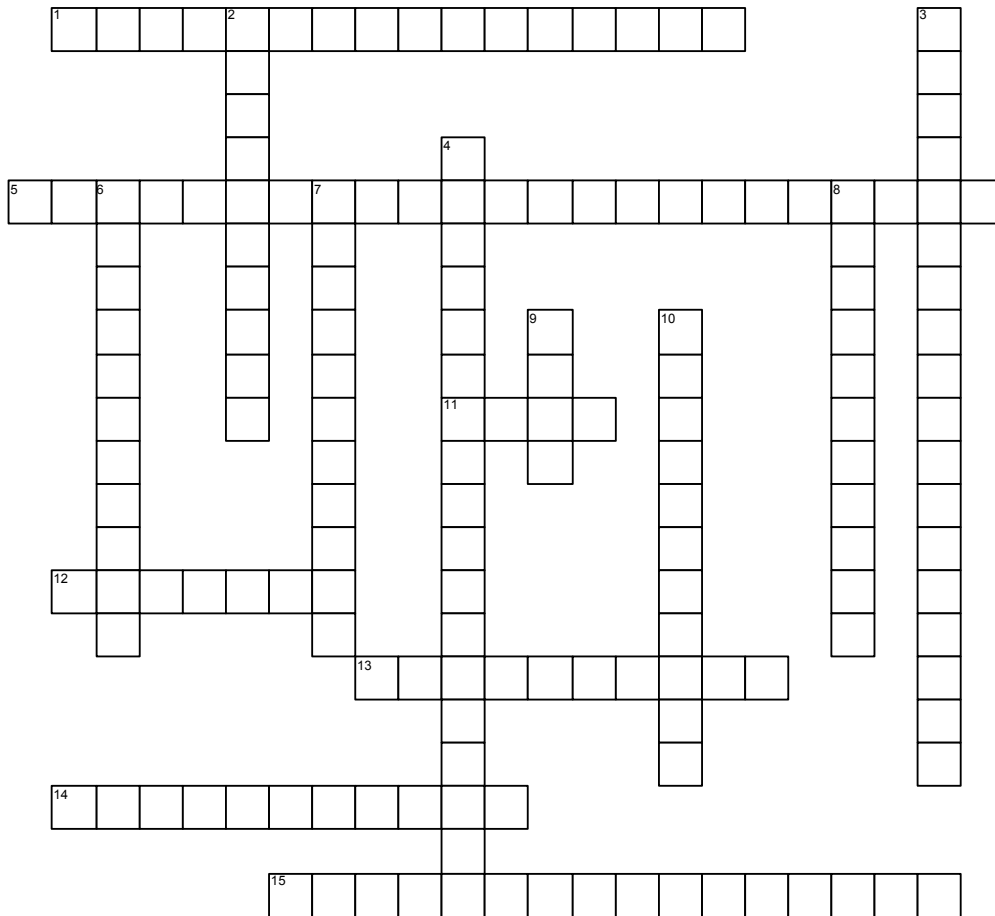


Heating and Air-Conditioning Principles

Chapter 3



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ACROSS

- 1 _____ is the mass of water vapor in a given volume of air.
- 5 A third way to handle a cooling load is by the use of _____, which is called air conditioning.
- 11 The _____ system of an automobile is designed to provide comfort for the driver and passengers.
- 12 Heat is measured in the metric unit called _____ and expresses the amount of heat needed to raise the temperature of one gram of water one degree Celsius.
- 13 In most vehicles, heated coolant is circulated through a heat exchanger, called a _____.
- 14 Humans have a temperature _____ somewhere between 68° F and 78° F.
- 15 _____ is the percentage of how much moisture is present in the air compared to how much moisture the air is capable of holding at that temperature.

DOWN

- 2 _____ is the "extra" heat that is needed to transform a substance from one state to another.
- 3 A method of cooling that works well in areas of low humidity is evaporation of water, commonly called _____.
- 4 One _____ is the heat required to raise the temperature of one pound of water 1° F at sea level.
- 6 One way to move heat, called _____, is with a block of ice.
- 7 Most recent vehicles use a _____ in the A/C and heating systems to clean the air by trapping dust and pollen particles before they enter the passenger compartment.
- 8 The measure of the level of energy.
- 9 Sensible _____ makes sense because it can be felt and measured on a thermometer.
- 10 _____ is the term used when additional heat is needed.