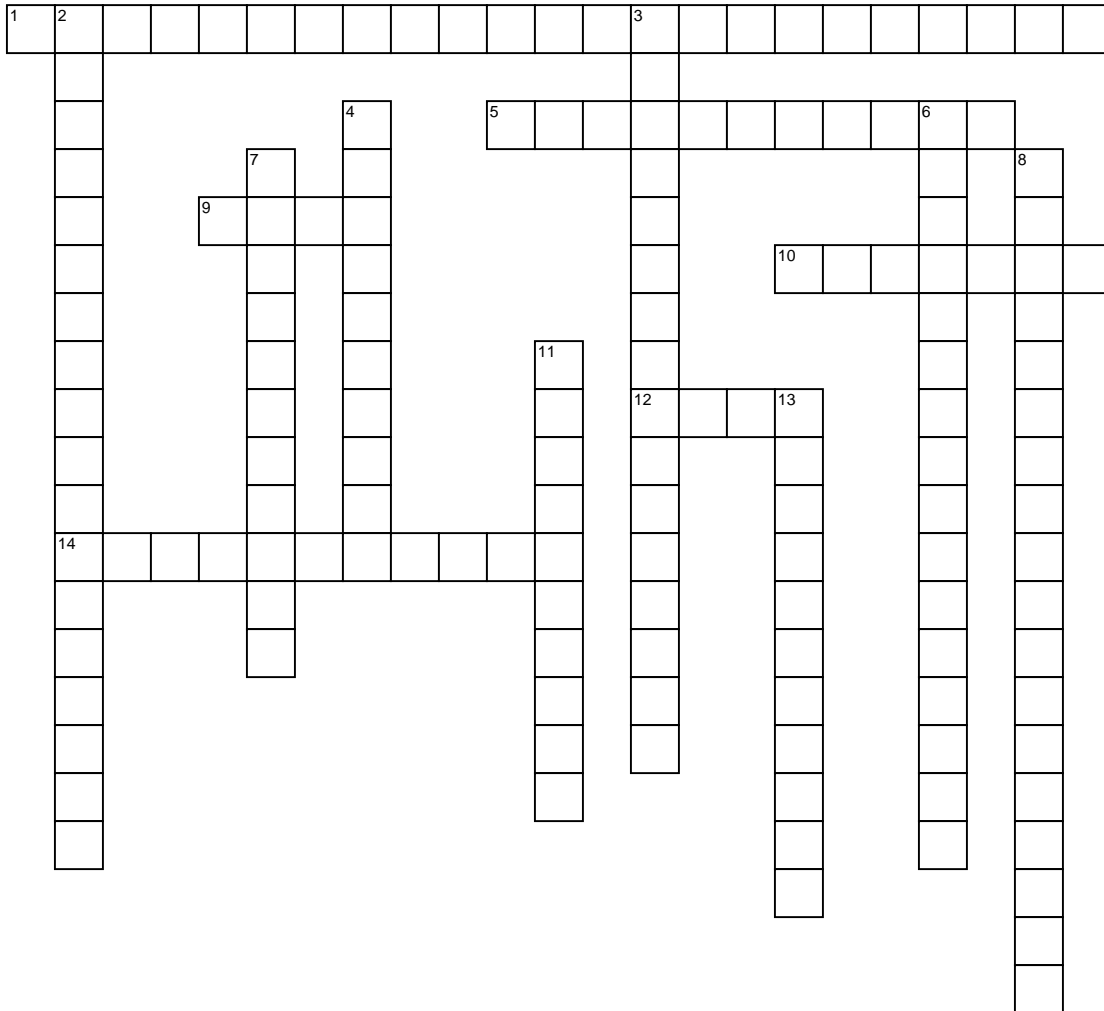


Chapter 1

Heating and Air-conditioning Principles



ACROSS

- 1 A third way to handle a cooling load is by the use of _____, which is called air conditioning.
- 5 One way to move heat, called _____, is with a block of ice.
- 9 _____ is measure in the metric unit called calorie and expresses the amount of heat needed to raise the temperature of one gram of water on degree Celsius.
- 10 Heat is measured in the metric unit called _____ and expresses the amount of heat needed to raise the temperature of on gram of water on degree Celsius.
- 12 _____ system of an automobile is designed to provide comfort for the driver and passengers.
- 14 Humans have a temperature _____ somewhere between 68 F and 78 F.

DOWN

- 2 A method of cooling that works well in areas of low humidity is evaporation of water, commonly called _____.
- 3 _____ 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.
- 4 _____ is the "extra" heat that is needed to transform a substance from one state to another.
- 6 _____ is the measure of the amount of moisture (water vapor) in the air regardless of the temperature.
- 7 _____ is the term used when additional heat is needed.
- 8 Heat is also measured in _____.
- 11 In most vehicles, heated coolant is circulated through a heat exchanger, called a _____.
- 13 Most recent vehicles use a _____ in the A/C and heating system to clean the air by trapping dust and pollen particles before the enter the passenger compartment.