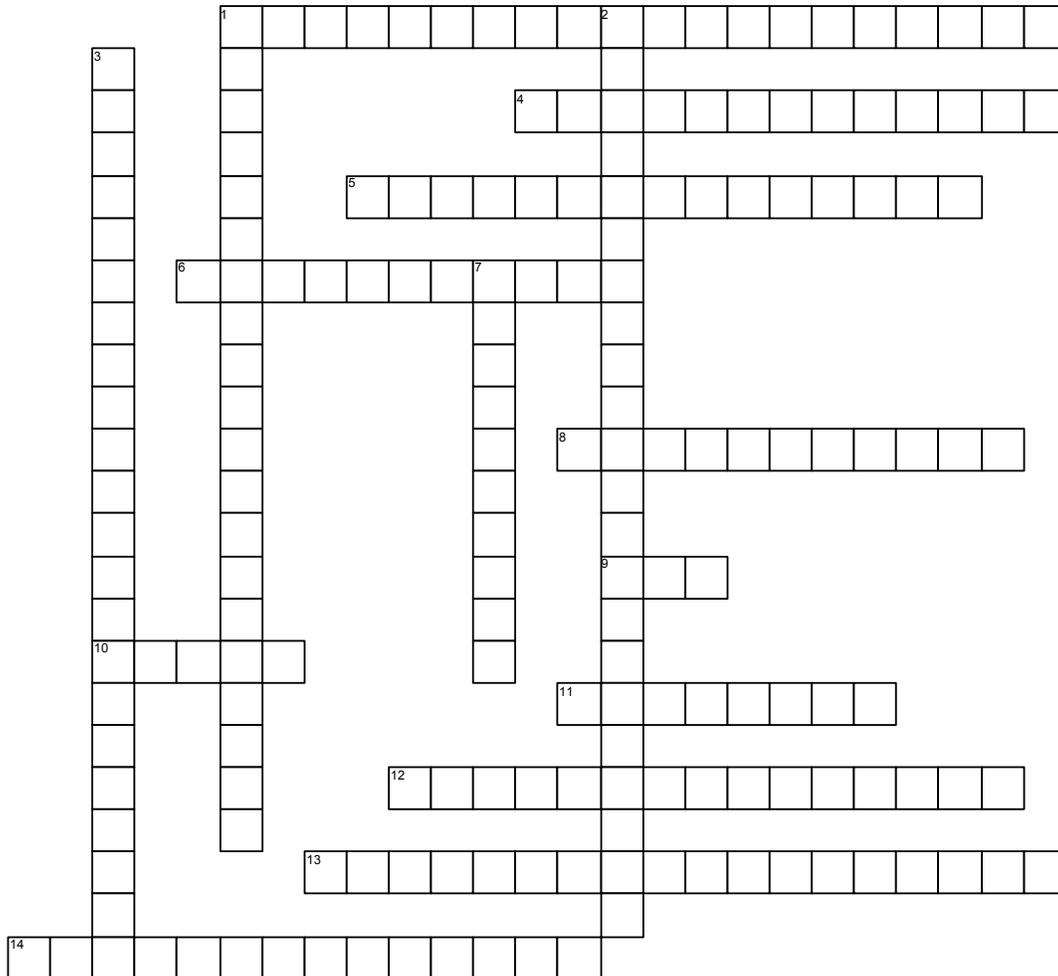


# Series, Parallel, And Series-Parallel Circuits

## Chapter 25



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### ACROSS

- 1 \_\_\_\_\_ states: The voltage around any closed circuit is equal to the sum of the voltage drops across the resistance.
- 4 A \_\_\_\_\_ is a complete circuit that has more than one electrical load where all of the current has only one path to flow through all of the loads.
- 5 A \_\_\_\_\_ is a complete circuit that has more than one path for the current.

- 6 The \_\_\_\_\_ can be determined by using Ohm's law and calculating for voltage using the value of each resistance individually.
- 8 \_\_\_\_\_ speeds are usually controlled by a fan switch sending current through high-, medium-, or low-resistance wire resistors.
- 9 Another name for a branch is a \_\_\_\_\_.
- 10 Another name for a branch is a \_\_\_\_\_.
- 11 The separate paths which split and meet at junction points are called \_\_\_\_\_.

- 12 Another name for a series-parallel circuit is a \_\_\_\_\_.
- 13 Another name for a series-parallel circuit is a \_\_\_\_\_.
- 14 Because an \_\_\_\_\_ needs both a power and a ground to operate, a break anywhere in a series circuit will cause the current in the circuit to stop.

### DOWN

- 1 \_\_\_\_\_ states: The current

flowing into any junction of an electrical circuit is equal to the current flowing out of that junction.

- 2 \_\_\_\_\_ are a combination of series and parallel segments in one complex circuit.
- 3 If \_\_\_\_\_ is needed, Ohm's law can be used to calculate it if voltage and current are known.
- 7 Most vehicles are equipped with a method of dimming the brightness of the \_\_\_\_\_ by turning a variable resistor.