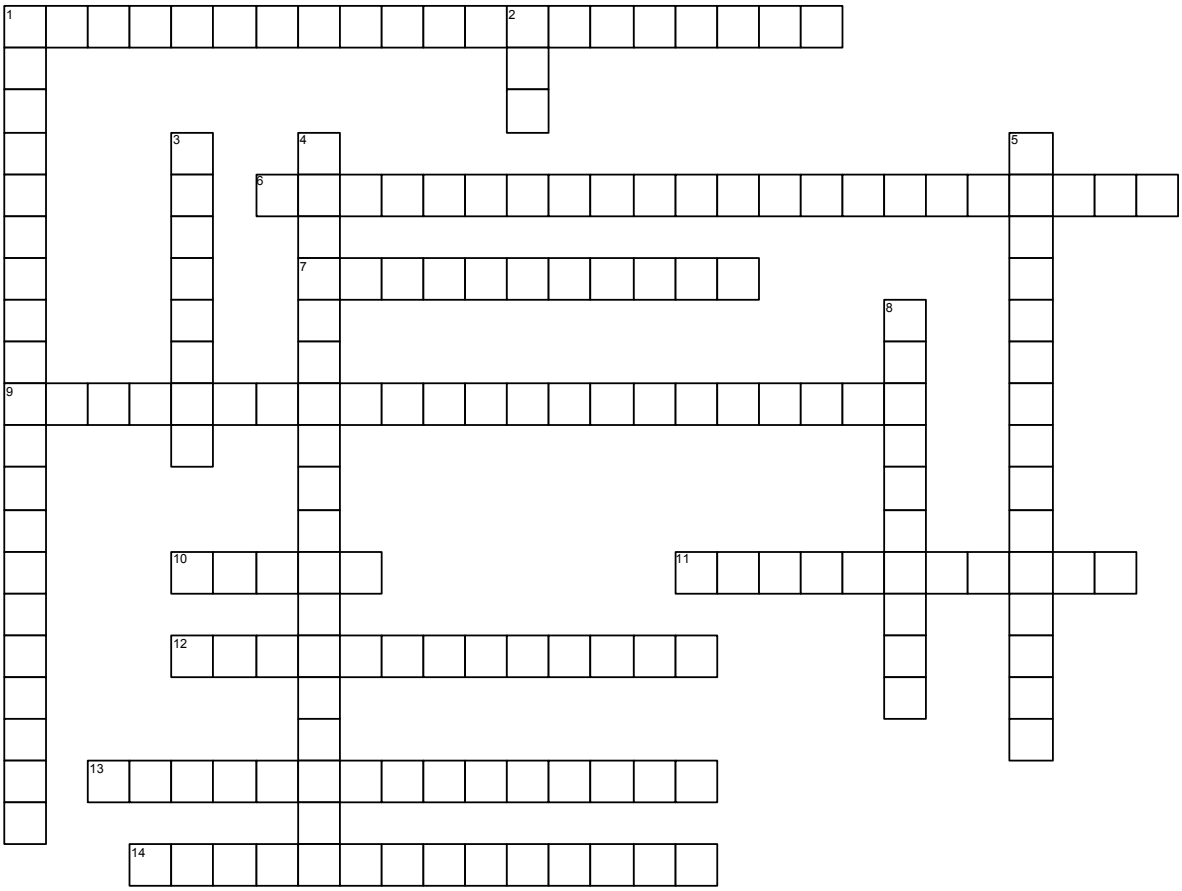
Series, Parallel, And Series-Parallel Circuits

Chapter 3



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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.

6 If _____ _____ _____ is needed, Ohm's law can be used to calculate it if voltage and current are known.

7 _____ _____ speeds are usually controlled by a fan switch sending current through high-, medium-, or low-resistance wire resistors.

9 _____-_____ _____ are a combination of series and parallel segments in one complex circuit.

10 Another name for a branch is a _____.

11 The _____ ____ can be determined by using Ohm's law and calculating for voltage using the value of each resistance individually.

12 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.

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 Another name for a branch is a ___.

3 The separate paths which split and meet at junction points are called _____.

4 Another name for a series-parallel circuit is a _____ _____.

5 A _____ _____ is a complete circuit that has more than one path for the current.

8 Most vehicles are equipped with a method of dimming the brightness of the ____ _____ by turning a variable resistor.