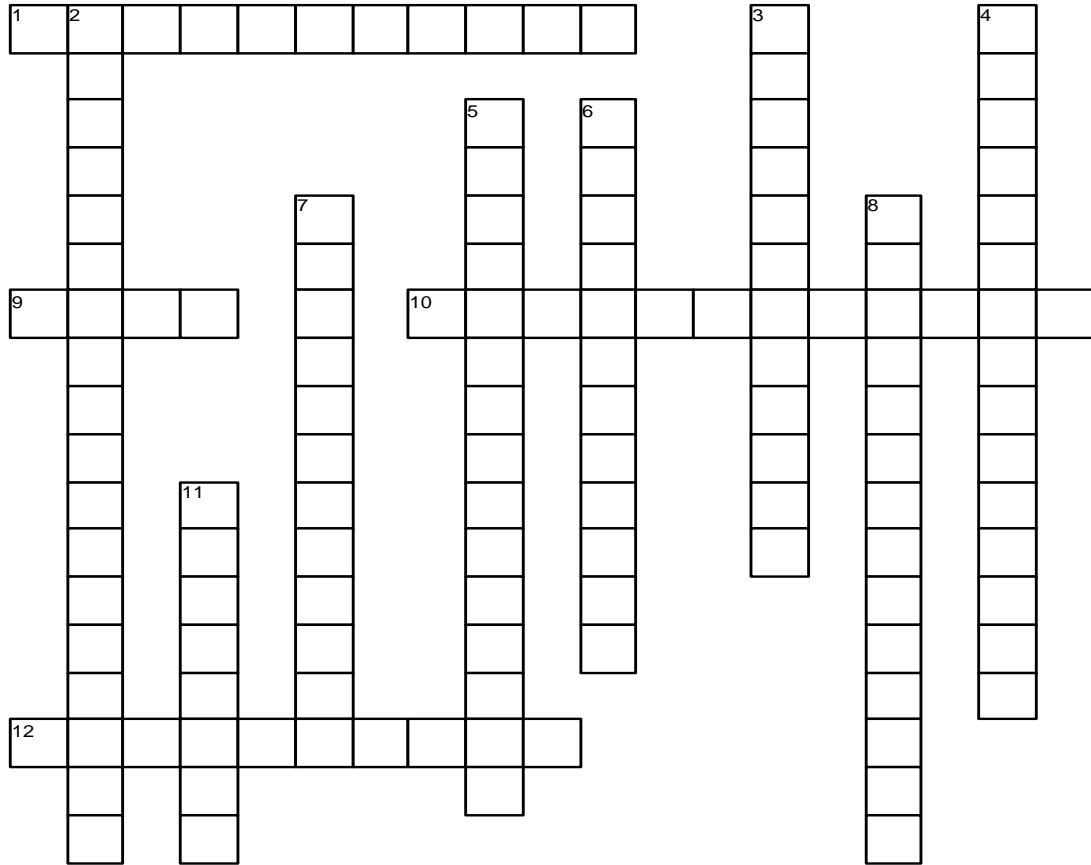


Intro to Electric and Hybrid Electric Vehicles

Chapter 87



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ACROSS

- 1 A _____ will incorporate idle stop, but is not capable of propelling the vehicle without starting the ICE.
- 9 Abbreviation for Phone as a key.
- 10 A _____ uses 144- to 158-volt batteries that provide for engine stop/start, regenerative braking, and power assist.
- 12 A _____ will incorporate idle stop and regenerative braking, but is not capable of using the electric motor to propel the vehicle on its own without help from the ICE.

DOWN

- 2 The i _____ engine (ICE) used in a hybrid vehicle can be either gasoline or diesel, although only gasoline-powered engines are currently used in hybrid vehicles.
- 3 A _____, also called a full hybrid, uses idle stop, regenerative braking, and is able to propel the vehicle using the electric motor(s) alone.
- 4 An _____ (EV), also referred to as an electric drive vehicle, uses one or more electric motors to propel the vehicle.
- 5 Early EVs, also called _____ vehicles (BEVs), were first used in the late 1800s, and it was not until the early 1900s that EVs were practically possible using rechargeable lead-acid batteries.
- 6 A _____ electric vehicle (PHEV) is an HEV with a larger capacity battery that can be recharged by the ICE or by plugging it in to an AC power source or charging station.
- 7 _____ is the fear that many potential owners of EV have that the vehicle will have insufficient range to reach their destination, and therefore could get stuck with a dead vehicle on the road.
- 8 A _____ vehicle (HEV) uses both an internal combustion engine and an electric motor to propel the vehicle.
- 11 Regenerative braking systems tend to slow the vehicle more aggressively than a conventional vehicle. Often the system can be set so that the brake pedal is not used during normal driving except to keep the vehicle stationary when stopped. This feature is usually called _____.