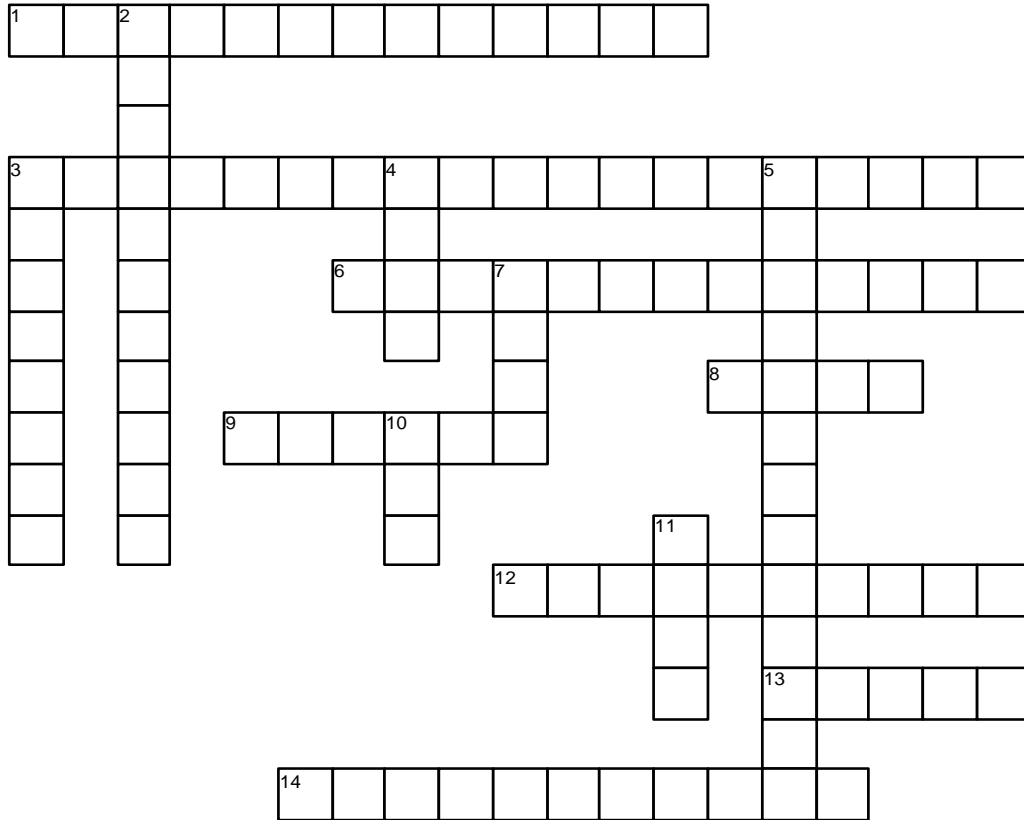


Vehicle Emission Standards And Testing

Chapter 41



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ACROSS

- 1 The higher the CO reading, the richer the air-fuel mixture, therefore CO is the _____.
- 3 The states must submit to the EPA a _____ plan for their programs.
- 6 The higher the O2 level, the leaner the exhaust, therefore oxygen is the _____.
- 8 _____ is a vehicle certified to meet the transitional low-emission vehicle standards established by the CARB.
- 9 If a vehicle meets the PZEV standards and is using high-technology features, such as an electric motor or high-pressure gaseous fuel tanks for compressed natural gas, it qualifies as a _____.
- 12 _____ hydrocarbon is the standard by which exhaust emission testing for hydrocarbons is evaluated.
- 13 _____ is an enriched oxygen molecule with three atoms of oxygen instead of the normal two atoms of oxygen.
- 14 The _____ procedure is the test used to certify all new vehicles before they can be sold.

DOWN

- 2 Federal emission standards are set by the _____ amendments of 1990 grouped by tier.
- 3 Evaporative emissions are determined using the _____, which measures the evaporative emissions from the vehicle after a heat-up period representing a vehicle sitting in the sun.
- 4 A _____ is compliant with the SULEV standard; additionally has near-zero evaporative emissions and a 15-year/150,000 mile warranty on its emission control equipment.
- 5 The _____ simulation mode type of test uses a dynamometer that applies a heavy load on the vehicle at a steady-state speed.
- 7 All vehicles nationwide must meet the _____ standard, which started in 2001.
- 10 The _____ category is largely restricted to electric vehicles and hydrogen-fueled vehicles.
- 11 Oxides of nitrogen contribute to the formation of photochemical _____ when sunlight reacts chemically with NOx and unburned hydrocarbons.