# Ethanol and the Environment Unit 4 Lesson 1

**Matching:**

***Hydrocarbons***

***Carbon dioxide***

***Ozone***

***Nitrogen Oxides***

***Carbon monoxide***

Place the emission name next to the statement which best matches each term in the blank provided.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_1. Unburned fuel from evaporation of gasoline and incomplete combustion.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_2. Non-toxic vapor produced by complete combustion.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3. Produced during high combustion temperatures.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_4. A toxic vapor produced when burning excessively rich air/fuel mixtures.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_5. Created when unburned fuel vapors and ***nitrogen oxides*** react when sunlight is present.

**Essay:**

Answer the following question:

1. How does burning ethanol-blended gasoline in a vehicle lower ***carbon monoxide*** levels?

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Unscramble the following words that relate to ethanol fuels:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_1. THLANOE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. OSALINGE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3. BRANCO XOMNOIDE

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. RAING

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5. NORC

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_6. HOLACOL

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_7. NOZEO

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_8. GENYXO

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. EUFL

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_10. DRYHOBORCANS