# Vehicle Technology Unit 3 Lesson 1

I. There is a growing need to find more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ friendly ways to power the world’s fleet of automobiles, buses, and planes.

A. E85 ***ethanol*** contains far fewer potential \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than found in gasoline.

1. The U.S. Department of Energy says vehicles fueled with E85 ***ethanol*** have lower \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ emissions than conventional gasoline or diesel vehicles.

2. ***Ethanol*** reduces exhaust VOC emissions by 12 percent.

3. ***Ethanol*** reduces toxic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by 30 percent.

B. Reduces the consumer \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of gasoline by extending the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C. Provides an alternative to costly \_\_\_\_\_\_\_\_\_\_\_\_\_ oil. Just 23.8 gallons of ***ethanol*** can replace one barrel of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ oil.

D. Gives leverage to independent gasoline marketers competing against larger, more powerful integrated oil companies