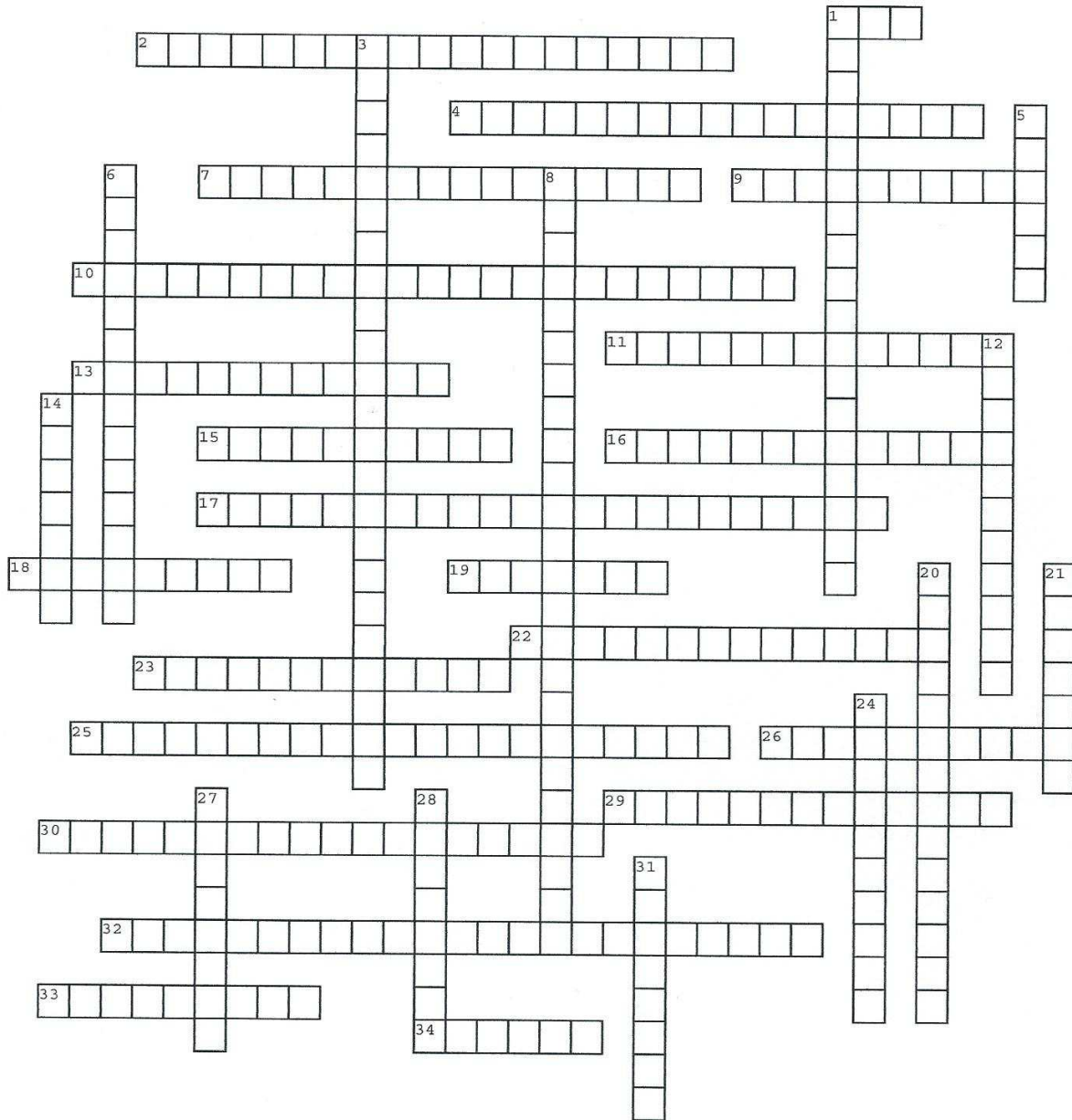


Lesson3_Crossword Puzzle

Name _____

Complete the crossword below



Across

1. A FUEL BLEND OF 85% ETHANOL AND 15% GASOLINE
2. _____ TECHNOLOGY IS COOLANT WITH ORGANIC ACIDS AND EITHER PHOSPHATES AND SOME SILICATES, OR NO SILICATES AND SOME PHOSPHATES (3 WORDS)
4. THE FLOW OF AN ELECTRICAL CURRENT AS A RESULT OF TWO DIFFERENT METALS IN A LIQUID, WHICH ACT LIKE A BATTERY (2 WORDS)
7. ETBE or MTBE; USED AS GASOLINE ADDITIVES TO REDUCE CO EMISSIONS
9. USED TO CHECK FREEZE POINT, BOILING POINT, PH LEVEL
10. A TYPE OF ALTERNATIVE FUEL, USUALLY USED BY SMALL FLEETS
11. THE _____ OF ANTIFREEZE AND WATER IS ALSO A FACTOR OF MIXTURE CONCENTRATIONS (2 WORDS)
13. THE PROCESS OF PURIFICATION THROUGH EVAPORATION AND THEN CONDENSATION OF THE DESIRED LIQUID
15. A RESERVOIR MOUNTED AT THE HIGHEST POINT IN THE COOLING SYSTEM
16. USED TO TEST THE FREEZING POINT OF COOLANT
17. A TYPE OF ALTERNATIVE FUEL (3 WORDS)
18. SERPENTINE FIN CORE AND PLATE FIN CORE
19. AN OCTANE ENHANCER ADDED TO GASOLINE; A FUEL OXYGENATE
22. RATIO OF AIR TO FUEL IN AN INTAKE CHARGE AS MEASURED BY WEIGHT
23. ELECTRIC FLOW THROUGH THE COOLANT THAT MAY CAUSE METAL TO FLOW INTO THE COOLANT
25. COOLANT USED BY MOST MANUFACTURERS (3 WORDS)
26. A VIOLENT EXPLOSION IN THE COMBUSTION CHAMBER CREATED BY UNCONTROLLED BURNING OF THE AIR-FUEL MIXTURE
29. MEASUREMENT OF GASOLINE'S ABILITY TO RESIST ENGINE KNOCK
30. MEASURES THE DENSITY OF COOLANT (2 WORDS)
32. SYSTEM COOLS, PRESSURE REDUCES, A PARTIAL VACUUM IS FORMED TO KEEP SYSTEM FULL OF COOLANT (3 WORDS)
33. RENEWABLE FUEL MANUFACTURED FROM VEGETABLE OILS, ANIMAL FATS OR RECYCLED RESTAURANT GREASE
34. ANOTHER TERM FOR PROPANE

Down

1. MADE TO DETER INGESTION BY ANIMALS (2 WORDS)
3. COOLANT CONTAINING ETHYLENE GLYCOL, BUT NO SILICATES OR PHOSPHATES
5. ALLOWS A SMALL PART OF THE COOLANT TO CIRCULATE WITHIN THE ENGINE DURING WARM-UP
6. AN AIR FUEL RATIO OF EXACTLY 14.7:1
8. USED IN FLEX-FUEL VEHICLES, IT PROVIDES INFORMATION TO THE PCM ON THE ETHANOL CONTENT AND TEMPERATURE OF FUEL
12. TEMPERATURE CONTROLLED VALVE PLACED AT ENGINE COOLANT OUTLET ON MOST ENGINES
14. SYNTHETIC FUEL GENERATED BY A REACTION BETWEEN COAL AND STEAM
20. _____ TECHNOLOGY IS CONVENTIONAL GREEN ANTIFREEZE CONTAINING SODIUM SILICATE, PHOSPHATES, OR BORATES (2 WORDS)
21. LIQUIFIED PETROLEUM GAS
24. A MEASUREMENT OF THE TENDENCY OF LIQUID TO CHANGE TO VAPOR
27. MECHANISM IN A WATER PUMP THAT ROTATES TO PRODUCE COOLANT FLOW
28. EXTENDED LIFE COOLANT
31. REFINED PETROLEUM PRODUCT