

Vernon Middle School's

CAR CLUB!!!

Do you want to learn about cars?...Then join Vernon Middle School's Car Club!!!!

1. Learn the basics about car maintenance!
2. Learn how to safely work on cars!
3. Learn how to change a tire!



4. Learn how to service a car battery!



5. Learn how to check and change car fluids!
6. Learn the basic tools used to work on cars!
7. Learn how an engine works!



8. Build a model engine!



9. Disassemble and reassemble a small engine!

Wednesdays & Thursdays: 2:30 - 4:00 PM
Room 78 with Mr. Hall

CAR CLUB

Area of focus: Automotive Maintenance, Safety, and Tool Basics

Topics:

1. Identify Vehicle – Year, Make, Model
2. Navigating Vehicle Owner’s Manual
3. Vehicle Terminology
4. Tire Maintenance – air pressures, tire tread condition, direction vs non-directional, valve stem, tire wall, rotating tires, tread wear patterns, change a tire
5. Vehicle Fluids/Checking Fluid Level and Condition – brake fluid, transmission fluid, engine oil, power steering fluid, radiator fluid, and windshield washer fluid
6. Battery Maintenance & Service – cold cranking amps, cleaning terminal posts, checking water level, disconnecting, using a voltmeter to determine quality
7. Tools – Jack stand, Floor Jack, Standard/Metric screwdrivers, wrenches, sockets, torque wrench, allen wrenches, air compressor, pressure gauge, basic power tools, multi-meter
8. Safety – goggles, gloves, chalking a car, factor of safety,
9. Engine Basics – Engine components, mechanical and electrical energy, cooling system, lubrication, pressures, disassemble and reassemble an engine

Max Number of Students: 20

Materials Needed: Engine Model Kits - can be found on Amazon for about \$70.00/kit