***Vehicle Systems***

**Brake System**- Slows or stops the car

Brake pads, rotors, calipers, master cylinder, brake booster, lines, hoses,

**Cooling system**- cools and maintains engine temperature-

Radiator, water pump, coolant, thermostat, hoses, heater core

**Steering system**- controls vehicle direction

Rack and pinion, power steering pump, steering column, steering wheel, tie rods

**Suspension system**- support weight of vehicle and smooth out ride of vehicle

Struts, shocks, springs, ball joints, sway bars

**Ignition system**- ignites fuel at proper time in the engine

Spark plugs, spark plug wires, ignition coils, distributor

**Fuel system**- supplies pressurized fuel to engine and meters it into the cylinder

Fuel pump, fuel filter, fuel lines, fuel injector, fuel pressure regulator

**Power train**- develops power to move the vehicle- engine and related subsystems

**Drive train-** transfers engine power to the wheels

Transmission, clutch, transfer case, differential, drive shaft, axles, wheel bearings

**Electrical system**- provides electricity for the vehicle and controls vehicle operation

Battery, alternator, starter, wires, computers

**Safety System**- protects passengers in the event of a collision or improper handling of the vehicle

Seat belts, air bags, traction control, anti-lock brakes, stability control

**Entertainment system**- provides entertainment and extra features for passengers

Radio, navigation, heated seats, TV/DVD

**Exhaust system**- removes waste gases from engine

Muffler, pipes, catalytic converter, hangers, exhaust manifold

**HVAC**- provides comfortable interior temperatures for passengers

Heater core, blower motor, condenser, evaporator, compressor, refrigerant, expansion valve