

Lab - Under The Hood

Students: 1. _____
 2. _____
 3. _____

Date: _____
 Block: _____

Team members will need to answer questions from the instructor to receive credit for this lab.

VEHICLE IDENTIFICATION			
Year:	_____	Make:	_____
Model:	_____	Mileage:	_____
VIN Number:	_____		
ACTIVITY			
1	One of the first things you do when working underneath the hood of a vehicle is to locate where some of the basic things are. In this lab you may draw on prior knowledge, use deductive reasoning, or access other resources to locate the items below		
LOCATE			
2	Battery (provides electricity to start the car)	_____	_____
	Positive Battery Connection	_____	_____
	Negative Battery Connection ("ground")	_____	_____
	Air Filter Housing (cleans the air going into the engine)	_____	_____
	Cooling Fan (circle: [Electric] [Belt-Driven])	_____	_____
	Radiator Cap & Radiator (cools the engine)	_____	_____
	Alternator (it recharges the battery)	_____	_____
	Brake Master Cylinder (creates hydraulic pressure to operate the brakes)	_____	_____
	Spark Plug Wires/Spark Plugs (ignites the air/fuel mixture)	_____	_____
	Oil Filter (cleans the oil inside the engine)	_____	_____
	Engine Oil Filler Cap	_____	_____

Engine Oil Dipstick

Automatic Transmission Dipstick (if so equipped)

Windshield Washer Fluid Reservoir

Engine Coolant Overflow Reservoir

Throttle Cable (connects to gas pedal)

Power Steering Pump, Reservoir Lid, Dipstick

Drive Belts for Cooling Fan, Alternator, Water Pump, etc

Carburetor or Throttle Body (one or the other)

Distributor (how many cylinders does this engine have?)

Positive Crankcase Ventilation (PCV) Valve

Water Pump (circulates coolant)

Valve Cover

Exhaust Manifold (ducts exhaust gasses out of the engine)

Intake Manifold (delivers air/fuel mixture to the engine cylinders)

Fuel Filter & Fuel Lines

Brake Lines

Steering Box/Rack & Pinion Steering Gear

Engine Block

Cylinder Head

STOP!

INSTRUCTOR'S INITIALS: