## Lab - Cooling System Inspection

Students:		2			Date: Block:
answ	ver que	stions	th the appropriate informa from the instructor about		
VEHICLE IDENTIFIC		NTIFIC	ATION	Make:	
Year:				Colour:	
Model: VIN Number:				Colour:	
YIIN	Numbe	er:			Circle as Appropriate
Ноэеэ:			Upper Radiator Hose [pliable][hard][cracked][rotten] Lower Radiator Hose [pliable][hard][cracked][rotten] Heater Core Hoses [pliable][hard][cracked][rotten]	Heater Control Valves:	[Proper operation] [Leakage] [Free moving]
Water Pump:			[Good] [Leakage] [Play in Bearings]	Frost Plugs:	# of Plugs: [Good] [Leakage] [Rusty]
Radiator:			[Solid] [Leakage] [Rotting]	Radiator Cap:	[Good] [Leakage]
Draincock:			[Opens] [Leakage]	Head Gaskets:	[Good] [Leakage]
Overflow tank:		ank:	[Full] [Low] [Empty]	Overflow Fluid:	Colour:
	OP!!			OR'S SIGN	ATURE:
1	☐ Engine should be off, but at operating temperature ☐ Cover cap with a rag and slowly remove radiator pressure cap ☐ Coolant level should be flush with the top of the filler neck with overflow tank, 1" below if none		C	AUTION!	
			Engine coolant is HOT! Protect your hands and face. Remove the cap SLOWLY, releasing the pressure gradually!  Any spilled coolant should be mopped		
				up immediately	• •

	ls the	coolant Murky? Clear? Reddish colour? Green with a tinge of yellow? Frothing?	Inspect the tubes inside the radiator. Are they plugged or corroded?			
2		Insert Antifreeze Tester into radiator filler, and draw coolant up to the marked line	Coolant tests good to°F°C  Is that satisfactory? [Yes] [No]			
3		Pressurize the radiator cap and hold for 15 minutes	Radiator Cap is rated atpsi Cap held pressure? [Yes] [No] Both valves in the cap working? [Yes] [No]			
<b>5</b> 1	TOP!! INSTRUCTOR'S SIGNATURE:					
4		Pressurize the Cooling System and hold for 15 minutes (work on	CAUTION!			
		something else during this time) Thoroughly inspect cooling system for any evidence of leakage if the system is unable to maintain pressure	DO NOT EXCEED THE RATED PRESSURE! You want to find leaks, not make them!			
5	Clean	Clean up and put tools away				
6	Assume the cooling system in not operating adequately. What would cause the following situations?					
	1. Overheating while sitting in traffic?					
	2. Overheating while pulling long hills?					
	3.	Never heating up?				
7	Notes	to vehicle owner:				
51	TOP!!	INSTRUCT	OR'S SIGNATURE:			