<u>Lab - Starter Test</u>

Students:		1 2 3	Bloc	e: ck:
3e su 1ave t	ire to ha to answ	ox with the appropriate information ave Instructor's initials before movi ver questions from the instructor t	 Place checks (↓ ing on to the next 	t step. Team members will
Year			Make:	
Model:			Mileage:	
VIN Number:				
		STIGATION		
1	In order for this test to provide accurate results, the battery must be fully charged and in good shape - it is a good idea to service the battery first, as well as make sure all connections are perfect.			
PREP	ARATION			
		the correct specifications regarding your vehicle Turn off ALL accessories Disconnect the ignition coil primary wires Remove the fuel pump fuse on electric fuel pump equipped cars (most fuel injected engines) Position the VAT 40 so that the gauges can be seen from the driver's seat Ensure that the LOAD knob is "off" Connect the large Red (+) and Black (-) cables to the battery Connect the Green cable around the positive battery cable, with the arrow pointing away from	Always wear e ALL jewellery Loose battery any present H the battery.	be very dangerous. eye protection, remove and loose clothing. cables can arc, igniting ydrogen gasses from your hands with soaper handling a battery.
		the battery Place the test selector knob to the STARTER TEST position (Green & Red Square)		- I
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PROC	EDURE				
3		Record the battery voltage:			
	Crank the engine for NO MORE than 15 seconds				
		Record the LOWEST voltage the battery reached (Green Scale):			
		Record the HIGHEST current the starter drew (Red Scale):			
	Using	the information below, did the starter system pass? [yes] [no]			
	rg*	Cranking voltage should stay above 9.6V			
	rg*	Large V8 should stay below 250 amps			
	rg*	Small V8 should stay below 200 amps			
	rg*	6 cylinder should stay below 180 amps			
	ß	4 cylinder should stay below 150 amps			
4	Assuming the starter drew more current than it should, what three parts of the starter would you check for faults? 1. 2. 3. A starter does not always "engage" when the key is turned, instead it "spins" without turning the motor over. What is the likely cause?				
STOP!!		INSTRUCTOR'S INITIALS:			
Notes:					