Lab - Alternator Test

Students:

1
2
3

Date:	
Block:	

Fill in each box with the appropriate information. Place checks (\checkmark) where applicable. Be sure to have Instructor's initials before moving on to the next step. Each team member will need to answer questions to receive credit for this lab.

VEHICLE IDENTIFICATION							
Year:		Make:					
Model:		Mileage:					
VIN Number:							
SYST	SYSTEM INVESTIGATION						
1	In order and in g sure all	for this test to provide accurat good shape - it is a good idea to connections are perfect.	te results, the ba service the batt	attery must be fully charged ery first, as well as make			
PREP	ARATION						
2		Check service manual for	[
	the correct specifications	CAUTION					
	r 1	F egaraing your venicie Turn off ALL accessories	Detteries con				
	□ f	osition the VAT 40 so that	Batteries can	be very dangerous.			
	t	the gauges can be seen from the driver's seat Ensure that the LOAD knob is	Always wear e ALL jewellery	eye protection, remove and loose clothing.			
		off"	Loose battery	cables can arc, igniting			
		Connect large Red (+) and 3lack (-) cables to battery	any present Hydrogen gasses from the				
		Connect Green cable around	Sattery.				
	t 2 1 1 t	the Alternator cable, with the arrow pointing away from the Alternator Place the test selector knob to the ALTERNATOR TEST position (Blue Square)	Always wash and water afte	your hands with soap er handling a battery.			
ST	STOP! INSTRUCTOR'S INITIALS:						

PROC	EDURE					
3		Start and run engine at 2000rpm				
		Record the battery voltage (Green Scale):				
		Record the current (Blue Scale):				
		Load the system with the VAT 40 until maximum current is reached				
	DO NOT KEEP AT THIS POSITION FOR MORE THAN A FEW SECONDS!					
	PERMANENT DAMAGE TO THE VAT40 CAN RESULT!					
		Record the load voltage:				
		Record the load current:				
		Return the load to zero, stop engine and disconnect VAT 40				
	Are t	he text results within 10% of the specifications? [yes] [no]				
4	Assume the system did not pass (little or no current). Where below would you inspect to find the cause?					
	Inside the alternator: 1.					
	2.					
	3.					
	4.					
	Other	than the alternator:				
	2					
	<i>-</i> -•					
ST	OP!	INSTRUCTOR'S INITIALS:				