<u>Lab - Brake Bleeding</u> Date: \_\_\_\_\_ Students: Block:\_\_\_\_\_

Be su	re to ha	ave In		ing on to	checks (✔) where applicable. o the next step. Each team member is lab.		
VEHIC	CLE IDEN	TIFICAT	TION				
Year:				Make:			
Model:				Color:			
VIN Number:							
Brake System:			[Front/Rear Split] [Diagonally Split]				
SYSTEM INVESTIGATION							
1	Brake fluid should be changed every two years, and more frequently under severe service.						
	R	Brak	e fluid is hygroscopic (absort	os moist	ure)		
	rg	Mois	ture in the fluid will boil, crea	ting air	bubbles		
	<b>F</b>		pubbles in the fluid will reduce Shy" or sink to the floor	braking	power and make the pedal feel		
PREPARATION							
2		Che	ck service manual for				
			correct procedure for particular vehicle		CAUTION		
		star (Not bleed	e car and support on jack ds e: It is often easier to I brakes with the wheels	you sl	bleeder screws are fragile. If hear one off, you might have to be the entire wheel cylinder or er!!		
		off) Ensu adju	ire brakes are properly	To loo these	sen a stuck bleeder screw, try methods:		
		See	if you can crack the bleeder ws loose - CAUTION!	1.	Soak with WD40 and let sit for a while		
		Top frest	up master cylinder with 1 fluid from a NEW ainer	2.	Apply pressure with a wrench and tap the top of the bleeder with a hammer		
		Get Rem	a partner to help you. ember - do not wear ralls while sitting in the carl	3.	Apply pressure with a wrench and tap the base of the wheel cylinder with a blunted air-chisel		

www.gwellwood.com

Heat bleeder screw with a torch

© G Wellwood, 2004

and allow to cool

coveralls while sitting in the car!

LAB - Brake Bleeding.wpd

PROCEDURE							
3		NOTE: The person under the car is in charge!					
		Connect a clear plastic hose and clear container to the bleeder screw furthest away from the master cylinder (usually right rear, but CHECK YOUR SERVICE MANUAL!)					
		Have the person in the car gently pump the brake pedal three times and hold pressure					
		Crack the bleeder screw, and bleed the fluid into the container. Close bleeder screw when fluid stops (NOTE: Person inside MUST NOT release pedal until TOLD to do so!).					
		Repeat until the fluid does not contain any bubbles and you can see the new fluid. It may take anywhere from three to twenty tries to remove all the air and fluid.					
		Top up master cylinder (Keep an eye on the level - if you run out of fluid, the master cylinder will suck air - you will have to start all over again!)					
		Move to the next closest wheel cylinder and repeat (usually left rear)					
		Move to the next closest wheel cylinder and repeat (usually right front)					
		Move to the next closest wheel cylinder and repeat (usually left front)					
	The brake pedal should be high (little travel before brakes are applied) and firm.						
ST	STOP!! INSTRUCTOR'S INITIALS:						
4		Lower car					
		Return tools to tool room					
		Clean up any spills on car and floor with water and paper towel					
5	Assume that the brakes NEVER feel solid (that is, they are always mushy). What a two things that might cause this problem?						
	1.						
	2.						
Notes:							