

## **Brake System Principles**

Meets NATEF Task: None Specified

Name	Date	Time on Task
Make/Model/Year	_ VIN	Evaluation: 4 3 2 1
The energy required to slow and/or stop	a vehicle depends on t	wo major factors:
<ul><li>Weight of the vehicle</li><li>Speed of the Vehicle</li></ul>	GM THIS Y VEHIC EFFEI 1G6	MFD BY GENERAL MOTORS CORP  DATE GVWR GAWR FRT GAWR RR 07/03 2089 KG 997 KG 1092 KG 4606 LB 2198 LB 2408 LB  VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR ILE SAFETY, BUMPER, AND THEFT PREVENTION STANDARDS IN TON THE DATE OF MANUFACTURE SHOWN ABOVE.  DM577940107143 TYPE-PASS CAP
1. Check service information and the weight of the vehicle.		TYPE: PASS CAR
Weight =		
2. Add the number of possible patimes 150 pounds each):	assengers (one for each	h location equipped with seat belts
Number of passengers =	× 150 pounds =	=
3. Add possible luggage or cargo	o (see tire pressure dec	al) weight:
Luggage or cargo =		
<b>4.</b> Total vehicle weight =		
5. Using the formula, determine	the kinetic energy at the	he following speeds:
$\frac{\text{weight} \times \text{speed}^2}{29.9} = k$	cinetic energy	
30 mph =		
60 mph =		