

Name _____

Science

Class _____

Date _____

Physics Homework # 3-14: Momentum.

1. Two objects, A & B, have identical velocities. Object A has 3 times the mass of object B. Compare the momentum of each object. Justify your answer.

2. Two other objects, C and D, have identical masses. Object C has twice the velocity of object D. Compare the momentum of each object. Justify your answer.

3. An astronaut whose mass is 80 kg carries an empty oxygen tank with a mass of 10 kg. He throws the tank away from himself with a speed of 2.0 m/s. With what velocity does he start to move off into space?