

Momentum Packet 2

Newton's Third Law and Momentum Conservation

Read from Lesson 2 of the Momentum and Collisions chapter at The Physics Classroom:

MOP Connection: Momentum and Collisions: sublevels 4, 5 and 6



Newton's Third Law and Collisions: In a collision between object 1 and object 2, both objects encounter a force resulting from their mutual interaction with each other. The force on object 1 (F_1) is equal to and opposite in direction as the force on object 2 (F_2).

Plus a Little Logic: The forces which these two objects experience endure for the same amount of time. Since $F_1 = -F_2$ and $t_1 = t_2$ it stands to reason that $F_1 \cdot t_1 = -F_2 \cdot t_2$. This is to say that each object encounters the same impulse. If this is the case, then one can also reason that each object must experience the same momentum change.

Use the above principles to answer the next four questions.

- The club head ($m=0.170$ kg) of a golf club collides with a golf ball ($m=0.046$ kg) at rest upon a tee.

a. Which object experiences the greatest force?	club head	golf ball	both the same
b. Which object experiences the greatest impulse?	club head	golf ball	both the same
c. Which object experiences the greatest Δ momentum?	club head	golf ball	both the same
d. Which object experiences the greatest acceleration?	club head	golf ball	both the same
- A woman ($m = 45$ kg) is kneeling on the shoulders of a man ($m = 70$ kg) in pair figure skating. The man gracefully tosses the woman forward through the air.

a. Which object experiences the greatest force?	man	woman	both the same
b. Which object experiences the greatest impulse?	man	woman	both the same
c. Which object experiences the greatest Δ momentum?	man	woman	both the same
d. Which object experiences the greatest acceleration?	man	woman	both the same
- A moving cue ball collides head-on with the eight ball that is at rest upon the pool table. Assume the balls have the same mass.

a. Which object experiences the greatest force?	cue ball	8-ball	both the same
b. Which object experiences the greatest impulse?	cue ball	8-ball	both the same
c. Which object experiences the greatest Δ momentum?	cue ball	8-ball	both the same
d. Which object experiences the greatest acceleration?	cue ball	8-ball	both the same
- A large truck and a Volkswagen (VW) beetle have a head-on collision.

a. Which object experiences the greatest force?	truck	VW	both the same
b. Which object experiences the greatest impulse?	truck	VW	both the same
c. Which object experiences the greatest Δ momentum?	truck	VW	both the same
d. Which object experiences the greatest acceleration?	truck	VW	both the same

Physics Classroom Momentum Collisions Answers

J Dewey



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