

Newton's Laws of Motion Quiz

Name:
Date:
Class:

1. What will happen if you're in a car, and the driver slams on the brake?

- a. You will stop moving.
- b. You will continue moving forward.
- c. You will gradually slow down.
- d. You will speed up.

2. According to Newton's first law, an object in motion 7. If an unbalanced force acts on an object, what will will stay in motion unless:

- a. An opposing force acts on it.
- b. It's in outer space.
- c. It stops.
- d. It remains at rest.

3. What might happen if you were in a braking car, and you weren't wearing your seat belt?

- a. You'd fly backward through the rear window.
- b. You'd be pressed backward into your seat.
- c. You'd fly forward through the windshield.
- d. You'd move sideways through the passenger door.

4. What causes a ball rolling across a rug to slow to a stop?

- a. The rug doesn't have enough force to hold the ball.
- b. Friction resists the ball's forward motion.

c. The rug doesn't have enough momentum to keep the ball moving.

d. The ball isn't moving fast enough.

5. What part(s) of a moving car experience the most friction? Choose the best answer.



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6. Which of the following is an opinion about friction?

- a. It occurs any time two objects are in contact
- b. It always acts in the opposite direction as motion
- c. It slows objects down too much

d. It prevents objects on earth from staying in motion forever

happen?

- a. It will not move at all.
- b. It will accelerate in the same direction as the force.
- c. It will accelerate in the opposite direction to the force.

d. It will accelerate at an angle of 90 degrees to the force.

8. Ordinarily, gravity and the normal force counterbalance each other. In other words:

- a. They reinforce each other
- b. They have no effect on one another
- c. They act on you at all times
- d. They cancel each other out

9. What is net force?

- a. A force associated with the Internet
- b. The combined forces acting on a particular object
- c. The same thing as inertia
- d. The same thing as gravity



According to Newton's third law, what happens when you push against a wall?

a. The wall pushes back at you half as hard as you push against it.

b. The wall doesn't resist at all.

c. The wall pushes back at you with the same amount of force.

d. The wall pushes back at you twice as hard as you push against it.