

NEWTON'S LAWS OF MOTION WORKSHOP

Choose the correct options

1. _____ is the process of an object changing its place or position

- a. Friction
- b. Motion
- c. Speed
- d. Force



2. Which is an example of an object in motion:

- a. A basketball on a rack.
- b. A soccer ball resting on the grass
- c. A bowling ball rolling
- d. A tennis ball sitting on a container.



3. What is a push or a pull upon an object?

- a. Inertia
- b. Motion
- c. Friction
- d. Force



4. What force is causing the soccer ball to move?

- a. The wind
- b. The growing grass
- c. The moving foot
- d. The moving hand.



5. Which of the following can happen as the result of friction?

- a. An object can speed up
- b. An object can slow down
- c. An object can twice as fast
- d. All of the above



6. According to Newton's third law of motion, what does every action have?

- a. No reaction
- b. An equal and opposite reaction.
- c. The same reaction
- d. A larger reaction



7. If you place a book on your desk, it will remain at rest on your desk unless a force causes it to move. Which of Newton's law does the example help explain?

- a. Newton's gravitational force
- b. Newton's first law of motion
- c. Newton's second law of motion
- d. Newton's third law of motion.



8. What is the force of an object equal according to according to Newton's second law of motion?

- a. Its height added to its speed
- b. Its weight divided by acceleration
- c. Its mass times acceleration
- d. Its width times its speed.



9. If you and a friend hold a book, a pencil, a paper clip and a crayon at the same height in the air, and drop the all, which item will hit the ground with the greatest force?

- a. The book
- b. The pencil
- c. The paper clip
- d. The crayon.



10. If you drop an object, it will fall directly to the ground because of

- a. Friction
- b. Gravity
- c. Inertia
- d. Work

