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