Name: _____
Date Started: _____ Date Completed: _____Score: _____

Learning Activity Sheet
Law of Action-Reaction

A. **Directions:** In the space provided, write the letter of the correct answer.

___1. What do you call the force that one surface exerts on another when the two rub against each other?
A. friction
B. inertia
C. tension
D. weight
___2. Which law of motion states that for every action there is an equal and opposite reaction?
A. first law
B. second law
C. third law
D. fourth law
___3. Which of the following is an example of exerting a force?
A. a train speeding down a track
B. a carpenter hammering a nail
C. a child running through a field
D. an airplane soaring through the sky
___4. Newton's Third law of motion describes
A. net force
B. centripetal force
C. balanced forces
D.action and reaction forces
___5. According to the Newton's third law of motion, when a horse exerts force on the cart, the cart
A. exerts an equal force back on the horse
B. disappear into the horse
C. moves at a constant speed
D. creates friction with the horse

B. **Directions:** In the space provided, **w**rite **True** if the statement is correct and write **False** if it is not.

_____1. Action and reaction forces always come in pairs.
_____2. Action and reaction forces act on two the same bodies.
_____3. Action and reaction forces have different line of action.
_____4. Action and reaction forces are equal in magnitude but opposite in direction.
_____5. Action and reaction forces act on two different bodies.

C. Direction. Give 5 examples of action-reaction forces that you can observe in your community.

1._____
2._____
3._____
4._____
5._____