TYPES OF MOTION

Name ____

Directions: Before writing your answer to each question, <u>HIGHLIGHT</u> the answer in the reading.

Motion can be classified into 4 groups: linear, projectile, circular and vibrational.

When an object moves or travels in a straight line, it is called **LINEAR MOTION**. It is motion in one direction. Examples include: a runner running directly from home plate to first base, a car moving at constant speed, a parade of soldiers, and a bullet targeted from a pistil.





- A projectile is an object in which the only force acting on the object is _____.
- 4. Without gravity, the cannonball would follow a straight line path. With gravity, the cannonball will follow a "projectile" path.

Which path represents the projectile path?



5. The man's stick below is the projectile. **DRAW** the projectile path the stick will take when he releases it.



6. If Kayla throws a ball up in the air, the ball comes back down because of gravity acting on the ball.

Is this an example of projectile motion?

_____ (yes, no)

PROJECTILE MOTION occurs when moving objects are under the influence of gravity.



The ball thrown from any baseball player to another player has projectile motion. The ball is thrown forward and gravity is the force that causes the ball to curve downward.



When you throw a basket ball to the hoop, the ball doesn't continue in a straight line path because gravity is acting on the ball.





