**Physics Reading Guide 6.1 (pages 137-141)**  Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Under what conditions is an object a projectile?

2. What do we call the shape of the path of a projectile?

3. A projectile’s range depends on what two things?

4. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ components of a projectile’s velocity are

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of each other.

5. A projectile’s horizontal velocity is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. Does gravity affect the projectiles horizontal motion? Explain.

7. What causes a projectile’s vertical velocity to change?

8. What angle should you launch a projectile to get the greatest air time?

9. What angle should you launch a projectile to get the greatest range?

10. What different angle could you launch a projectile if you want it to land in the same place as a previous one launched at 68°?