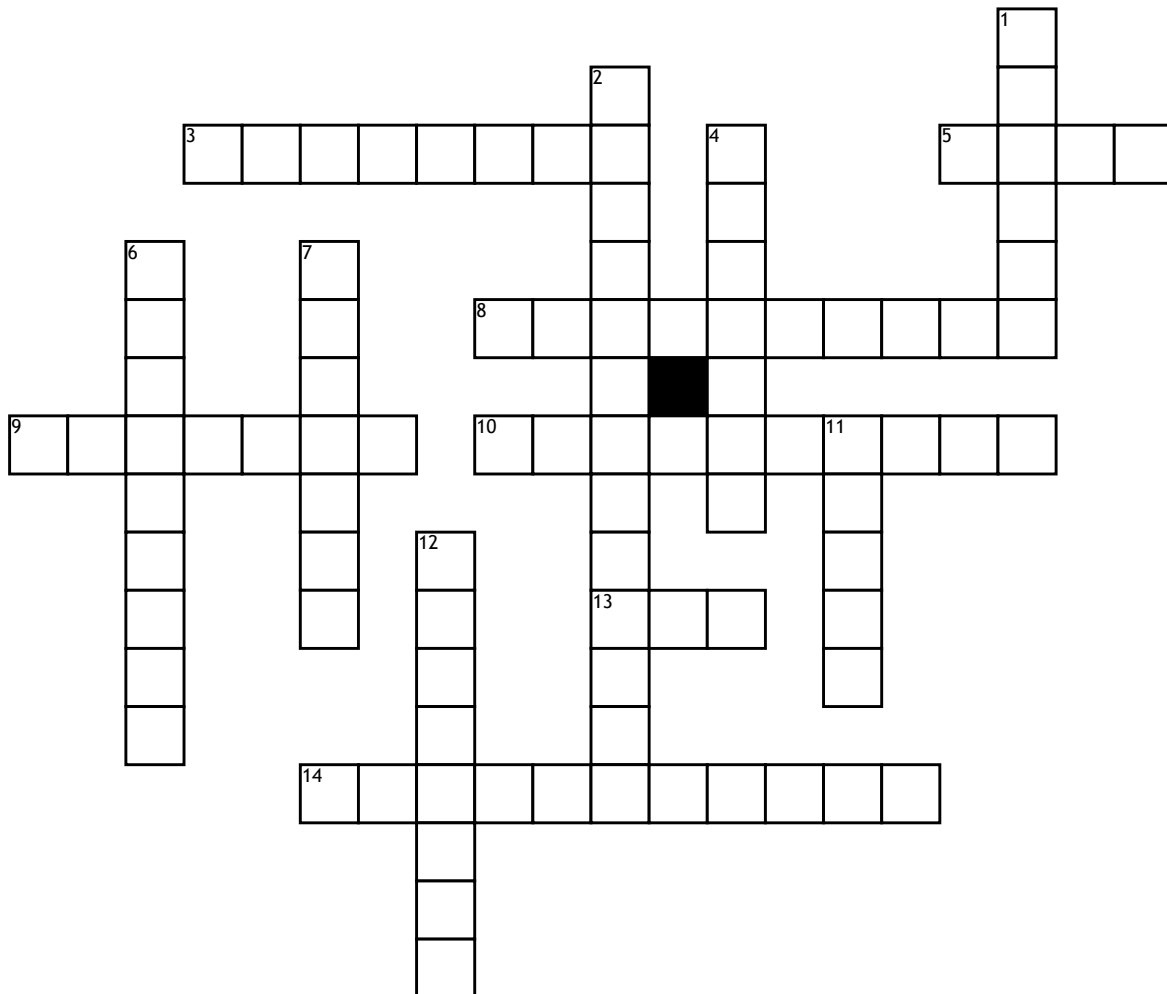


# Horiz Projectiles and Freefall Review



## Across

3. The horizontal velocity of a horizontally launched projectile is \_\_\_\_\_.

5. A ball is thrown in the air. What is the velocity at maximum height?

8. If a stone is thrown horizontally at 5m/s off of a cliff and it takes 5s to hit the ground. How far away from the base of the cliff did the stone land?

9. \_\_\_\_\_ is the only force that acts on an object in freefall.

10. The path that a projectile takes through the air is called its \_\_\_\_\_.

13. How much time is required for a stone to hit the ground if it is dropped from a 20 m tall building?

14. Motion in the x is \_\_\_\_\_ of motion in the y.

## Down

1. A car travels 0.2 m/s for 1 minutes. How far did it go?

2. If a marble is dropped and a marble is launched horizontally, they both reach the ground \_\_\_\_\_ (4 words)

4. A car accelerates from rest at  $3.2 \text{ m/s}^2$ . When the car has traveled a distance of 40.0 meters, its speed will be \_\_\_\_\_ m/s.

6. The trajectory of a horizontally launched projectile can be described as \_\_\_\_\_.

7. OOPS! I dropped my cell phone! Let's say it fell for 1.5s, what is its final velocity just before hitting the ground.

11. An object dropped from rest will have a velocity of 30m/s at the end of \_\_\_\_\_ s.

12. The vertical velocity of a horizontally launched projectile \_\_\_\_\_ (2 words)