

# Physics

## Kinematics & free fall Quiz Review

Name: \_\_\_\_\_ Block: \_\_\_\_\_

1. What do the following variables stand for?

$\Delta x$ :

$x_i$ :

$x_f$ :

$v_i$ :

$v_f$ :

$a$ :

$t$ :

$\Delta x_y$ :

$\Delta x_x$ :

$v_{iy}$ :

$v_{fy}$ :

2. If Mr. Muschong is looking over a bridge 20 m above a river and his sunglasses accidentally fall off his face. How long will it take the sunglasses to hit the water?

How fast are the sunglasses moving when they hit the water?

3. Mr. Woods is playing soccer with his kids in his backyard and kicks the ball with a velocity of 10 m/s. His son is standing 40 meters away. If the ball accelerates at a constant rate and comes to a stop after 7 seconds, will it reach his son?