

$$t = 0$$
$$v = 0$$

$$t = 1 \text{ s}$$
$$v \approx 10 \text{ m/s}$$

$$t = 2 \text{ s}$$
$$v \approx 20 \text{ m/s}$$

**Acceleration of gravity:** Downward velocity increases by about 10 m/s with each passing second. (Gravity does not affect horizontal velocity.)

**$t$  = time**  
 **$v$  = velocity (downward)**

