

must remain constant throughout the flight. Figure 1.3 shows how adding a constant horizontal velocity to a changing vertical velocity gives the actual velocity of the projectile at each instant. Note that the horizontal velocity vector remains constant throughout the flight, while the vertical velocity increases due to the force exerted on the projectile by gravity.

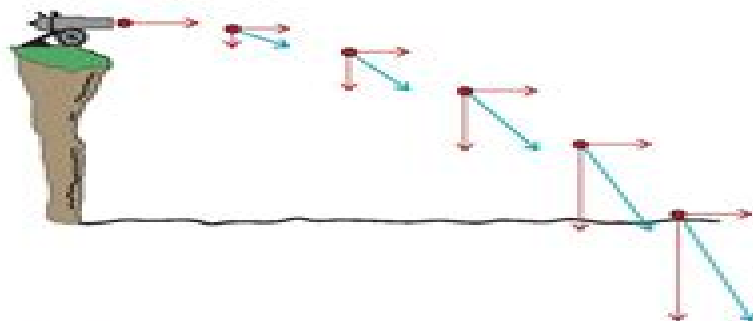


Figure 1.3 Velocity of a projectile is the sum of the vertical and horizontal velocities

- To find the position of a projectile at a specific time we add the horizontal displacement and vertical displacement at that time. Similarly, to find the velocity at a specific time, we add the horizontal and vertical velocity at that time.
- If we call the horizontal direction x and the vertical direction y , we can break up the **initial velocity** (u) into its **vertical and horizontal components**, as shown in Figure 1.4. The horizontal velocity will remain constant during the flight, while the vertical velocity will change because of the downwards acceleration due to gravity.

initial velocity: the initial velocity of a projectile is the velocity with which it is launched

initial horizontal velocity: the component of the initial velocity in the horizontal direction

initial vertical velocity: the component of the initial velocity in the vertical direction



Figure 1.4 Breaking up the initial velocity (u) of a projectile into its vertical (u_y) and horizontal (u_x) components

- To take the vector nature of motion into account we call upwards vector quantities positive, and downwards vector quantities negative. For example, as the acceleration due to gravity is always directed downwards, we will always write it as a negative quantity (i.e. $g = -9.8 \text{ ms}^{-2}$).
- When solving projectile motion problems, it is useful to remember that the vertical component of the velocity will be zero at the top of the flight, and that the magnitude of the initial vertical velocity and final vertical velocity will be equal if the projectile is launched and lands at the same height.

→ KEY QUESTIONS

- 1 Why is the rate at which an object falls not related to its horizontal velocity?
- 2 How did Galileo analyse projectile motion?
- 3 How is the velocity of a projectile related to the vertical and horizontal components of the velocity at any instant during the flight?

Answers ➞ p. 15

EXAMPLE 1

A ball is dropped by a boy inside a car travelling horizontally at 8 ms^{-1} . Find the velocity of the ball after 0.5 s with respect to:

- a the boy in the car
- b a stationary observer who is outside the car.

The path of a projectile will appear vertical to an observer moving with the same horizontal velocity as the projectile

Answer:

- a The boy in the car will see the ball fall vertically downwards, from rest, with an acceleration of 9.8 ms^{-2} . To take the vector nature of the motion into account we call vector quantities directed upwards *positive*, and vector quantities directed downwards *negative*. We can then use the equations of motion to find the final velocity (v):

$$\begin{aligned} v &= u + at = -9.8(0.5) + 0 \\ &= -4.9 \text{ ms}^{-2} \text{ or } 4.9 \text{ ms}^{-1} \text{ downwards} \end{aligned}$$

- b The observer at rest outside the car sees the car and ball travelling horizontally at 8 ms^{-1} when the ball is released. Because there is no horizontal acceleration, the horizontal velocity will not change throughout the flight. To determine the final velocity we add the final vertical velocity and the final horizontal velocity. That is, we add 4.9 ms^{-1} downwards to the 8 ms^{-1} horizontally, as shown in Figure 1.5.

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