

$$S = \frac{1}{2} g t^2 \quad v = g t \quad g_{\text{earth}} = 9.81 \text{ m/s}^2 \quad g_{\text{moon}} = 1.62 \text{ m/s}^2$$

Motion of a falling object (Earth & Moon) - Level 1

1. State the value of the acceleration due gravity:

a. On Earth _____

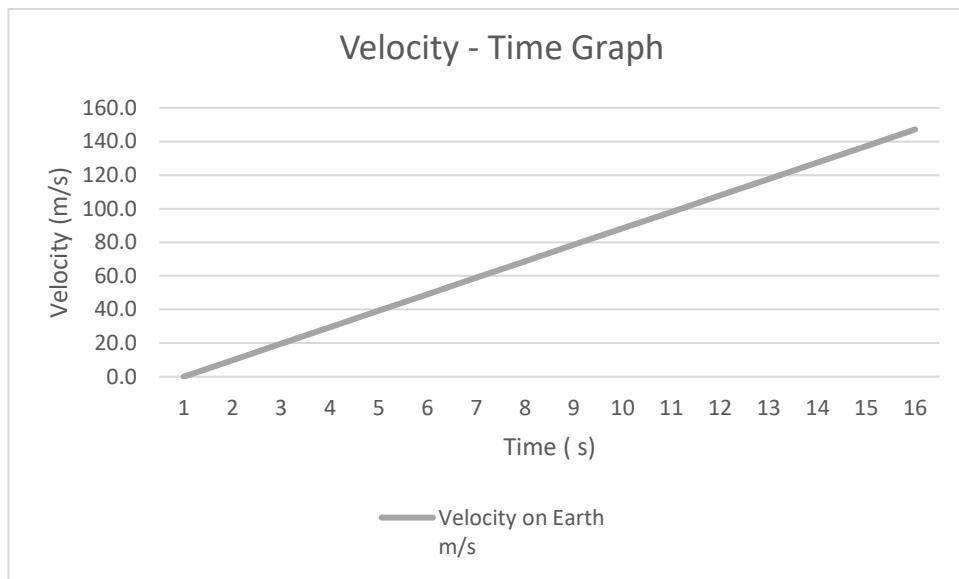
b. On the Moon _____

2. An object is dropped from rest on Earth.

a. What is its initial velocity (u)? _____

b. Calculate the speed (v) of a falling object on Earth after 2 seconds.

2. Look at the velocity -time graph of a falling object.



a. What does the slope of the graph represent? _____

b. Why is the graph a straight line? _____
