

Objectives

- 22.1 Describe acceleration and give examples of acceleration.
- 22.2 Calculate acceleration and calculate distance for an object accelerating.
- 22.3 Graph distance vs time for an object that is accelerating.
- Language: L22.4 Write phrases that describe acceleration of objects.

Key Questions (Level I → IV)

1. What is acceleration? (I)
2. Write the equation for acceleration. (I)
3. What causes acceleration? (I)
4. What is deceleration? (I)
5. Give an example of an object accelerating. (I)
6. Write the units for acceleration. (I)
7. Describe three types of changes in velocity. (II)
8. Weight is equal to mass times the acceleration of gravity. What is the weight of a 10kg ball on Earth? On the Moon? (II)
9. A train increases its speed from $0 \frac{m}{s}$ to $1 \frac{m}{s}$. It takes the train 5 seconds to do this. What is the acceleration of the train? (II)
10. What is the speed of the same train after 20 seconds? (II)
11. The acceleration of gravity is $9.8 \frac{m}{s^2}$. How fast will an object be falling if it falls for 3 seconds? (II)
12. Graph an object that is accelerating. Your graph should show distance (y-axis) and time (x-axis). (II)
13. Compare the graph of an accelerating object to an object that is decelerating or moving at a constant speed. (II)
14. The equation for distance for an accelerating object is $d = \frac{1}{2} a t^2$. How far does an object fall in 3 seconds? Assume there is no air resistance and remember that the acceleration of gravity is about $10 \frac{m}{s^2}$. (II)
15. How much time would it take for an object to fall exactly 2 meters? $t = \sqrt{\frac{2d}{a}}$. (II)
16. Show the algebraic steps to derive the above equation for time of an accelerating object. Begin with the equation given for distance of the same. (III)
17. Derive the equation $d = \frac{1}{2} a t^2$ using a graph of velocity vs time. (III)
18. A scale shows the weight of a person to be 700N. The person is on an elevator that accelerates upward at $2 \frac{m}{s^2}$ for the first 2 seconds. What is the weight of that person during those two seconds? (IV)

Key Vocabulary

acceleration, free-fall, constant acceleration, linear graph, non-linear graph, gravitational constant (g), change in velocity (Δv), deceleration, weight

Physical Science Section Acceleration Guide Answers

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