

Motion Speed and Acceleration

Big Idea Question: What is acceleration?

You are at a red light. The light turns green and you accelerate forward. We think of acceleration as the increase in speed. But that is not the real definition of acceleration. The definition of acceleration is the rate at which velocity changes. Velocity is the speed of an object plus its direction. This means that an object can accelerate if its speed changes, its direction changes, or both its speed and direction change.

Diagram 1

The person presses on the gas pedal moving the car faster and faster until 5 seconds later they are moving 20 mph.

0 mph 5 mph 10 mph 20 mph

Speed or Direction

Looking at diagram 1, you can see the speed of the car moving faster and faster as it moves away from the stop sign. This increase in speed is referred to as positive acceleration. When a person puts their foot on the brakes, the car will move slower and slower. This decrease in speed is referred to as a negative acceleration or deceleration. An object can also accelerate even if it is moving at a constant speed. Diagram 2 shows the moon orbiting around Earth. The Moon moves at a constant speed of 2,288 mph. Its speed does not change but it is in constant acceleration because its direction is constantly changing as it orbits around Earth.

Diagram 2

Although the Moon moves at a constant 2,288 mph, it is constantly changing directions, so it is constantly accelerating.

Diagram 3

An object accelerates you need to know the initial speed and the amount of time it took to reach the final speed and the amount of time it took to reach the final speed. The car described in diagram 1, the car accelerated from 0 mph at the stop sign to 20 mph in 5 seconds.

Resources:

- ✓ Reading Passages
- ✓ Notes
- ✓ Worksheets
- ✓ Task Cards

Digital
and Print

Science Reading
Comprehension questions
and Worksheets

Guided And Study Acceleration Motion Answers

JE Gale



Guided And Study Acceleration Motion Answers:

Reviewing **Guided And Study Acceleration Motion Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Guided And Study Acceleration Motion Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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