

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 final speed and the amount of time it took to go from the initial speed to the final speed. The car went from 0 mph at the stop sign to 20 mph in 5 seconds. As described in diagram 3, the car accelerated.

Resources:

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

**Digital
and Print**

**Science Reading
Comprehension questions
and Worksheets**

Guided And Study Acceleration Motion Answers

Jin-Ying Zhang



Guided And Study Acceleration Motion Answers:

Guided And Study Acceleration Motion Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Guided And Study Acceleration Motion Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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