



Kinematics

FOR GRADES 9-12

Kinematics

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Introduction

Video Vocab is more than a definition. The Video Vocab series helps teachers to provide their students with effective ways to learn and retain classroom vocabulary.

This live-action video program incorporates many research-based learning strategies proven to help students learn and retain vocabulary. This video features a wide variety of video footage, photographs, diagrams and colorful, animated graphics and labels. The use of visual reinforcement supports comprehension and retention.

Each program begins with a simple definition. The word or term is repeated numerous times by the narrator and the text shown on-screen. This helps clarify pronunciation and provides opportunities to transfer words from working to long-term memory. In addition, the words are used in various contexts providing students with a model for how to appropriately use the words. Related words are also used and reinforced with text.

The facts or characteristics of the concept are outlined. Then, examples and non-examples of the term are clearly demonstrated. Video Vocab provides educators with an alternative way to help their students learn classroom vocabulary and allows students to think about words beyond the simple recitation of a definition.

The Video Vocab series was designed with Common Core standards in mind.

Learning Objectives

After viewing the video and participating in the activities in this guide, students will be better able to:

- Define the term Kinematics
- Appropriately pronounce and use the term Kinematics
- Understand Kinematics as well as related concepts and principles
- Identify examples of Kinematics
- Explain how Kinematics impacts their life and others

Using Video Vocab

Video Vocab can be incorporated into your lesson in many ways.

Using Video Effectively

Video can be a powerful tool for meaningful learning. The key to using this video effectively is preparation.

- Preview the video.
- Review the printable handouts ahead of time to determine which ones will work best for your students.
- Maximize the learning opportunities in your classroom by encouraging students to become active viewers.
- Use the video to introduce the content to your class, or to review the lesson, or both.
- Use the video to engage in discussion before and use the handouts to help consolidate the information they are learning.
- Play the video in front of the entire class, or have students watch it individually or in small groups.

Program Summary

Video Vocab: Kinematics is live-action video segment. The program is designed to reinforce and support a student's comprehension and retention of the term through use of video footage, photographs, diagrams and colorful, animated graphics and labels.

Viewers will see and hear Kinematics used in a variety of contexts providing students with a model for how to appropriately use the word. Related words are also used and reinforced with visuals and text.

Related Titles Available From Classroom Video Vocab:

Video Vocab: Kinematics

Video Vocab: Mechanics

Discussion Questions

- 1. What is Kinematics?**
- 2. What are examples of Kinematics?**
- 3. How does Kinematics affect your life?**
- 4. Why is it important to understand Kinematics?**

- Listen to the person who is speaking.
- Only one person speaks at a time, no interrupting.
- If you want to say something raise your hand to be recognized.
- When you disagree with someone, make sure that you make a difference between criticizing someone's idea and the person themselves.
- No laughing when a person is saying something.
- Encourage everyone to participate.

Be An Active Viewer

Name: _____

Kinematics

BEFORE VIEWING

Video Vocab word or term _____

How would YOU define this word or term? _____

DURING VIEWING

Circle the words that relate to Kinematics.

vectors

speed

distance

numeric

position

displacement

AFTER VIEWING

Video Vocab definition: _____

What is one important fact YOU learned from this video?
