



## Scientific Laws

FOR GRADES 9-12

## Scientific Laws

Introduction . . . . .	3
Learning Objectives . . . . .	4
Using Video Vocab . . . . .	5
Program Summary . . . . .	6
Discussion Questions . . . . .	7
Handouts ( <i>may be copied for class distribution</i> ) . . . . .	8

# 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 Scientific Laws
- Appropriately pronounce and use the term Scientific Laws
- Understand Scientific Laws as well as related concepts and principles
- Identify examples of Scientific Laws
- Explain how Scientific Laws 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: Scientific Laws are 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 Scientific Laws 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:      Scientific Laws

Video Vocab:      Scientific Theories

# Discussion Questions

**1. What are Scientific Laws?**

**2. What are examples of Scientific Laws?**

**3. How do Scientific Laws affect your life?**

**4. Why is it important to understand Scientific Laws?**

- 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: \_\_\_\_\_

## ***Scientific Laws***

### ***BEFORE VIEWING***

Video Vocab word or term \_\_\_\_\_

How would YOU define this word or term? \_\_\_\_\_

\_\_\_\_\_

### ***DURING VIEWING***

Circle the words that relate to Scientific Laws.

fluid                      dense                      motile  
descriptive              ammonia                      variables

### ***AFTER VIEWING***

Video Vocab definition: \_\_\_\_\_

\_\_\_\_\_

What is one important fact YOU learned from this video?

\_\_\_\_\_