



# Skeletal and Muscular System

FOR GRADES 3-8

## Skeletal and Muscular System

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# Introduction



The Real World Science series helps teachers to provide their students with effective ways to learn and retain important core science concepts.

This live-action video program incorporates many research-based learning strategies proven to help students learn and retain information. 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.

The facts or characteristics of the concept are outlined. Then, examples and non-examples of the concepts are clearly demonstrated. Real World Science provides educators with an alternative way to help their students learn core concepts.

The Real World Science 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 role of the Skeletal and Muscular System
- Identify major parts of the Skeletal and Muscular System
- Understand how the Skeletal and Muscular System function
- Explain how the skeletal and muscular systems work together

# Using Real World Science

Real World Science 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

Real World Science: Skeletal and Muscular System is a live-action video. The program is designed to reinforce and support a student's comprehension and retention of core science concepts through use of video footage, photographs, diagrams and colorful, animated graphics and labels.

In this information-packed program students will learn about the behavior patterns of all types of animals including mammals, birds, insects and more. From food gathering to mating, survival instincts and sleeping habits to social behaviors, this program shows students how behaviors of each animal help them to adapt to different environments.

# Discussion Questions

- 1. What is Skeletal and Muscular System?**
- 2. What are the key functions of the Skeletal and Muscular System?**
- 3. How does Skeletal and Muscular System affect your life?**
- 4. Why is it important to understand the Skeletal and Muscular System?**

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

## ***Skeletal and Muscular System***

### ***BEFORE VIEWING***

How would YOU define this system? \_\_\_\_\_

\_\_\_\_\_

### ***DURING VIEWING***

Circle the words that relate to Skeletal and Muscular System.

bone	spine	connective tissue	spongy bone
cartilage	joint	hemoglobin	ball and socket

### ***AFTER VIEWING***

Define Skeletal and Muscular System: \_\_\_\_\_

\_\_\_\_\_

What is one important fact YOU learned from this video?

\_\_\_\_\_