01. Introduction to Anatomy and Physiology
Series: Anatomy and Physiology: An Introduction
From the tiniest cells to the largest organ systems, the human body is a complex organism that is capable of both power and grace. When we think of a ballerina, we might conjure images of grace and fl...

02. Basic Chemistry and the Cellular Level of Organisation
Series: Anatomy and Physiology: An Introduction
In the human body there are three different types of chemical reactions which take place. This video resource introduces synthesis, decomposition and exchange, and explains how the body uses each of t...

03. Tissues and the Integumentary System
Series: Anatomy and Physiology: An Introduction
The layers of our skin, its accessory organs and the underlying tissues are functional components of the human body. This video resource teaches about how the epidermis, the outer layer of the skin, i...

04. The Skeletal System
Series: Anatomy and Physiology: An Introduction
Although the skeleton provides a framework for the body, it is hardly rigid. Bones are living tissues that actively contribute to maintaining homeostasis. Healthy bones are anything but dry or brittle...

05. The Muscular System
Series: Anatomy and Physiology: An Introduction
When we think of muscles, we might conjure images of bulging biceps, flexing hip flexors, and taut triceps, but there are actually three types of muscle tissue in the human body. Our muscles not only...

06. The Nervous System
Series: Anatomy and Physiology: An Introduction
This lesson provides a glimpse into the human neural network we call the nervous system. We can compare the nervous system to a highly complicated computer network. If we think of the brain as that ce...

07. The Senses
Series: Anatomy and Physiology: An Introduction
Every day, our senses are barraged with sounds, images, and smells. We use our senses to receive, and in some cases filter out, all the sensory information that we encounter. But sensations go beyond...

08. The Endocrine System
Series: Anatomy and Physiology: An Introduction
This video resource teaches about the different disorders of the endocrine system. The video resource covers the definition and diagnosis of Graves disease and Hashimoto's disease. It goes on to look...

09. The Cardiovascular System
Series: Anatomy and Physiology: An Introduction
In this video resource, students will learn about Mitchell, a baby who is suffering from idiopathic cardiomyopathy, a heart condition with an unknown cause, which is likely to progress. Viewers will s...

10. Blood, the Lymphatic System and Immunity
Series: Anatomy and Physiology: An Introduction
In this video resource students will hear about how Bat saliva has been studied for its anti-clotting qualities, and how desmoteplase, the specific enzyme, is being used to help stroke patients. In th...
11. The Respiratory System
Series: Anatomy and Physiology: An Introduction
In this video resource students will learn about internal respiration and external respiration. With clear explanations and graphics, students will see that internal respiration is the exchange of oxy...

12. The Digestive System, Nutrition and Metabolism
Series: Anatomy and Physiology: An Introduction
This video resource shows students how the body absorbs lipids differently from carbohydrates and proteins. Students will learn when lipids enter the small intestine, the gall bladder is triggered to...

13. The Urinary System
Series: Anatomy and Physiology: An Introduction
This video resource looks at the effects of dehydration. Students will learn when dehydration occurs, the necessity of electrolytes, the effect of dehydration on the kidneys, and the production of renn...

14. The Reproductive Systems
Series: Anatomy and Physiology: An Introduction
To procreate naturally, both the male and the female reproductive systems must be fully functioning, and if they are not medical intervention may help a couple to conceive. This video resource introdu...