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## **6.01 Nervous and Musculoskeletal Guided Notes**

### **Objectives:**

In the lesson, you will:

- define key terms related to the muscular, skeletal, and nervous systems
- explain the function of the muscular, skeletal, and nervous systems
- describe ways the muscular, skeletal, and nervous systems interact to maintain homeostasis

### **Big Ideas:**

<b>Key Questions and Terms</b>	<b>Notes</b>
What types of muscles are in the body?	
What are muscles?	
What's the difference between voluntary muscles and involuntary muscles?	
What are the different types of muscle tissue?	
How do skeletal muscles work?	
What five functions does the skeleton perform?	
The backbone is made up of 26 small bones called _____.	
What are the characteristics of bones?	
What role do joints play?	
What are the two types of joints?	
What are ligaments?	
What is the role of the nervous system?	
Which parts of the body make up the central nervous system?	
Name the two main categories of the nervous system.	

How do the muscular, skeletal, and nervous systems work together to maintain homeostasis?	
What do sensory neurons do?	
What do motor neurons do?	

### **Nervous System Video:**

<b>Word Bank: brain, instincts, interpreted, organs, reflexes, spinal cord, senses</b>	<b>Notes</b>
The central nervous system includes the _____ and _____.	
Signals from _____ and the body's _____ are received by the brain and the spinal cord.	
Once signals are processed and _____ by the central nervous system, a response is sent back to the body.	
A central nervous system is also responsible for programming _____ and _____.	

### **Paraplegic Will Walk Again with Exoskeleton at the World Cup Video:**

<b>Key Questions and Terms</b>	<b>Notes</b>
What animal did scientists study to create the brain-machine interface?	
What does the exoskeleton use to power its movements?	
What is the importance of this research?	