Content Mastery



Get the Big Picture

Chapter

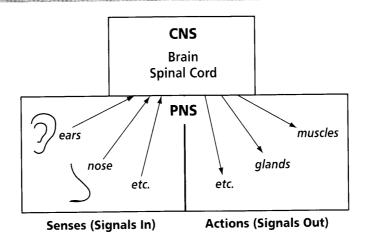
36

Read the paragraphs in the boxes and look at the diagram. Then answer the questions that follow.

The **nervous system** gives directions to all the other systems in your body. It also gets information from your senses and keeps track of how well the different parts of your body are working together. The nervous system is made up of two parts: the **central nervous system** (CNS), and the **peripheral nervous system** (PNS). Peripheral means "not central." Your brain and spinal cord make up your CNS and send and receive messages through your PNS.

Your senses allow you to perceive the world by seeing, hearing, feeling, tasting, and smelling. Your sense organs collect information about the world and send it to your brain. The brain decodes the signals and makes them meaningful.

Many drugs act to disrupt the normal functioning of the nervous system. Drugs can change your brain's ability to think and to control the rest of your body.



1. How does your central nervous system receive information?

2. Which part of the nervous system do the nerves in your skin belong to?

3. You may not think that caffeine is a drug, but it is. When you drink a soft drink that contains caffeine, you may feel jittery. Why do you think this is so?

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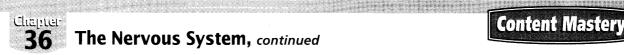
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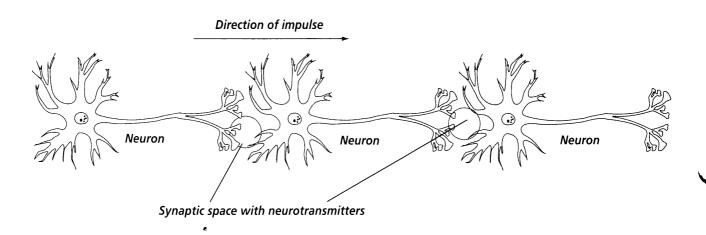


Section 36.1 The Nervous System

Study the Diagram

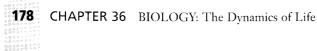
Read the paragraph in the box and study the diagram. Then answer the questions that follow.

Electrical signals travel throughout your nervous system, carrying information from one place to another. The nervous system is made up of nerve cells, or **neurons**. The neurons have gaps between them, called **synaptic spaces**, which an electrical signal has to jump across in order to continue. In some electrical machinery, electrical signals jump across a tiny gap as a spark. In your body, an electrical impulse is passed by a chemical signal called a **neurotransmitter**.



1. What would happen to your nervous system if the neurotransmitters in your body were suddenly blocked from passing into the synaptic spaces?

2. What do you think would happen if a lot of neurotransmitters were suddenly released throughout your nervous system?



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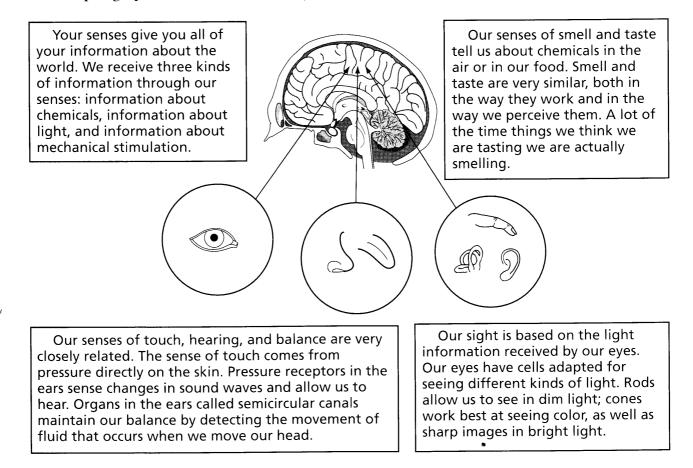
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Section 36.2 The Senses

Study the Diagram

Read the paragraphs in the boxes and study the diagram. Then answer the questions that follow.



- **1.** Which sense do you think an acrobat uses the most when walking blindfolded on a tightrope? Which organ is responsible for this sense?
- 2. Why is it hard to taste food when you have a stuffed-up nose?
- **3.** Cats have many rods and few cones in their eyes. Do you think cats see well in the dark? How well do you think they see colors?

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Chapter **36** The Nervous System, continued

Review the Vocabulary

	addiction cerebrum neuron (NEW rahn) rods	us system ea rawal				cerebellum retina taste bud synapse (SIH naps)								
Use the Chapter 36 vocabulary words lis above to complete the puzzle. First, write the correct word on the line after each definition. Then find the same word in the letter grid and circle it. Words may be written on horizontal, vertical, or diagonal lines.		isted	f	r	a	X	e	d	h	1	u	с	e	n
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