

How the Nervous System Works

You have just completed an investigation into your own visual and auditory senses. Now it is time to discover how our nervous system works. **Read** the passage that follows to learn how this system works. Then, **talk** together about how the parts of the nervous system are connected. Be ready to **share** your ideas.

Your nervous system is very busy. It has three jobs: gather information, make sense of it, and tell the body what to do based on that information. The nervous system gathers information about what is going on inside and outside your body and sends this information to the brain.



The process begins with your senses. Sensory organs, like your eyes, ears, and even skin, gather information. For example, your ears may pick up sound waves coming from a chirping bird. The nerves in your ears send a message to the brain. You do not actually hear the chirps until your brain makes sense of the sound waves. Next, the brain sends a message to the body about what to do, such as turn to look for the bird in a tree.

When the brain receives a message, it then sends a message telling the body how to react. Some messages, called **reflexes**, are so fast you are barely aware of them. Other messages are relayed to and from the brain automatically, like the signal to breathe.



Talk Together What role do you think reflexes played in the investigation?



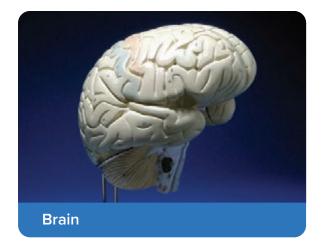
Activity 8

Evaluate Like a Scientist

Describing the Nervous System

The Nervous System

Look at the following images. Which of these are part of the nervous system? Circle all that apply.









Life Skills I can use information to solve a problem.



the brain.

function of the Nervous System

parts of the nervous system can do together that the individual parts cannot do alone. Share your answer with a partner.					
Describe the Nervous System Read the sentences that describe the nervous system. Write the correct term from the word bank in each blank. You will not use all the terms.					
	heart nervous system	brain reaction time	nerves	blood	
1.	Thebody.			is like the command center fo	r your

2. _____ send(s) messages to

4. _____ are messages sent by the nervous

3. The brain is part of the _____

system that are often so fast you do not think about them.

Think about what you have learned about the nervous system and explain what the