

Vocabulary

brain	p. 100
stomach	p. 101
oxygen	p. 102
lungs	p. 102
heart	p. 104
blood	p. 104
skin	p. 105

Find out what these words mean as you study this lesson.

**Essential Question**

What Are Some Parts of Your Body?

Engage

Get Ready to Learn What are some parts of your body? God made your body in His image. Your body is made of many parts. Some parts you can see. Other parts you can not see. How do your body parts work together? How do they help you live and grow?



Try This! Is all of your skin the same? Look at your skin with a hand lens. Does the skin on your fingertips look the same as the skin on your arms? What differences do you see?



Structured Inquiry

Discover

Record your work for this inquiry. Your teacher may also assign the related Guided Inquiry.



Draw Your Body

What body parts are on the inside of your body?

Your Group Needs

- two big sheets of paper
- sidewalk chalk or a crayon
- paper cutouts of various body parts



Step 1 Trace the shape of your partner's body on a sheet of paper. Then, have your partner trace your body.

Step 2 Draw a face on your picture. Color the body parts and paste them on your body outline.

Step 3 Fold the paper in half along the long sides. Unfold it. **Compare** the sides. Record your observations.

Create Explanations

1. What body parts are on the inside of your body?
2. How are the body outlines different?

Your Brain Is the Boss

Explain



Faith Connection

Our bodies are evidence of God's perfect design. Each body part has an important job to do. All the parts fit together and work together perfectly.

Your **brain** is an important body part. Your brain is inside your head. You use it to think, feel, and remember. Your brain tells other body parts what to do using nerves. Nerves are like messengers that send signals to your body parts. Then your body parts react to the signals.

Even when you sleep, your brain is at work. It tells your lungs to breathe. Your brain is in charge of your body!



Your brain allows you to read, think, and learn.



How is the inside of a computer like your brain?

Power Up

People must eat food. Food gives you the energy you need to live. Many parts of your body help turn food into energy.



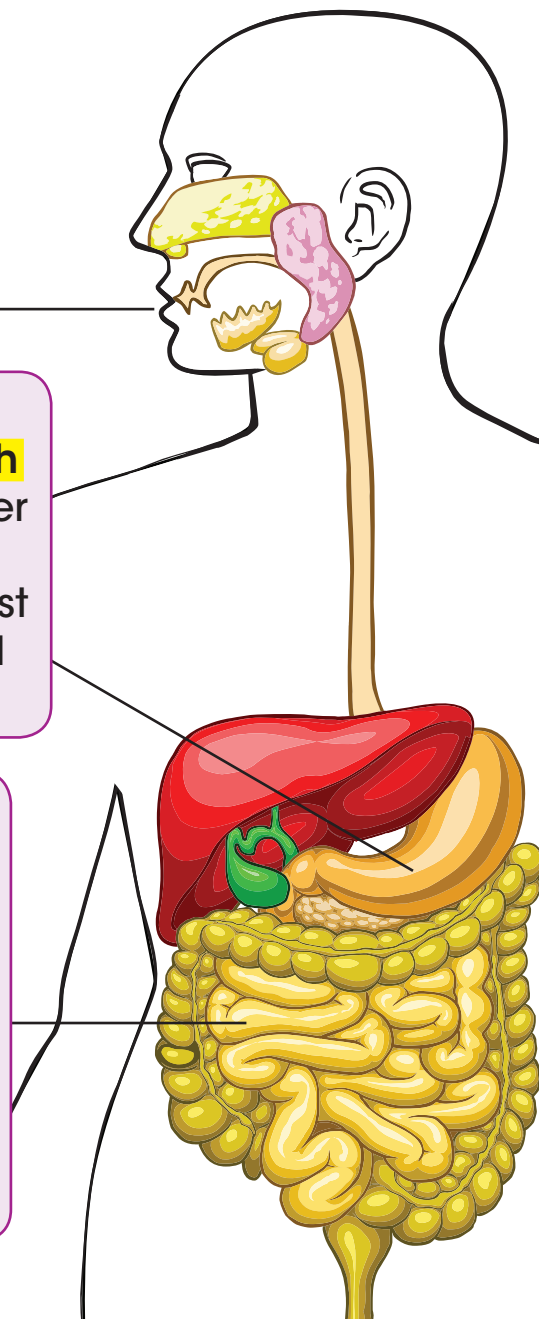
Think About It

What might happen if you don't have enough to eat?

You chew food into small pieces, and then swallow.

The food goes to your stomach. Your **stomach** breaks food into smaller pieces. Acid in your stomach helps to digest the pieces of food and kills germs.

Food leaves the stomach and enters the intestines. The intestines break down the food more so that the body can use it. Food you do not use leaves your body. It is called *waste*.



Take a Deep Breath

Explain




Scripture Spotlight

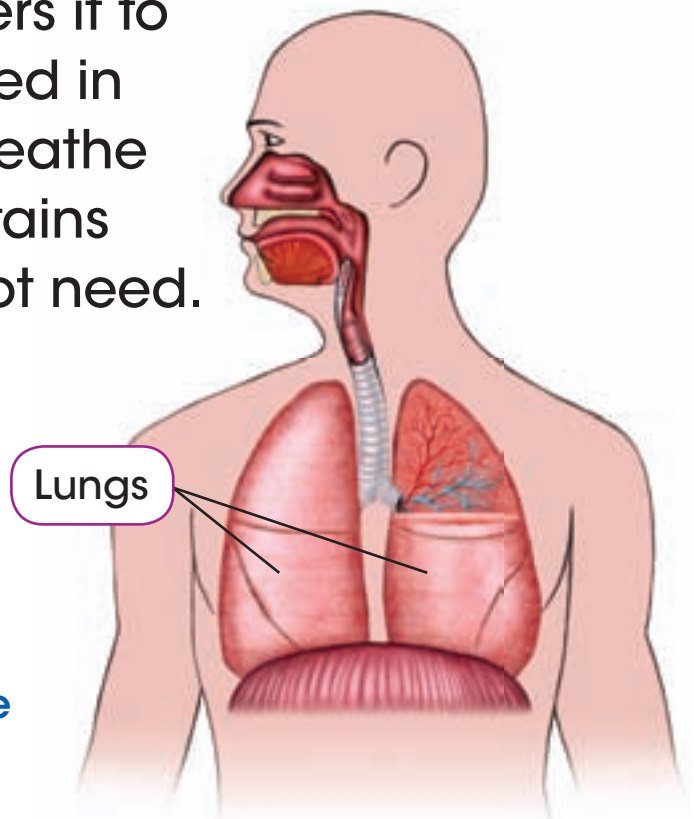
Read Genesis 2:7. How did God make man?

You breathe all day long. You take in air and then blow it out. **Oxygen** is the part of air that people need to live. Oxygen helps turn food into energy your body can use.

You breathe air through your mouth or nose. The air goes into your lungs. **Lungs** take oxygen from the air. The oxygen goes into your blood. The blood delivers it to where it is needed in the body. You breathe out air that contains gases you do not need.

You have two lungs in your chest. They help get oxygen into your body.

 Place your hands on your chest and breathe in. How does your chest change when you breathe in and then out?





These friends are running.

 **How do you think their breathing changes when they are running?**

Your body can not store oxygen. You must breathe all the time. You breathe 16 to 30 times each minute!

You need more oxygen when you work harder.

You do not need to remember to breathe. Your brain tells your lungs when to breathe.



Think About It

Your brain tells your lungs to breathe. Name another job your brain tells your body to do.

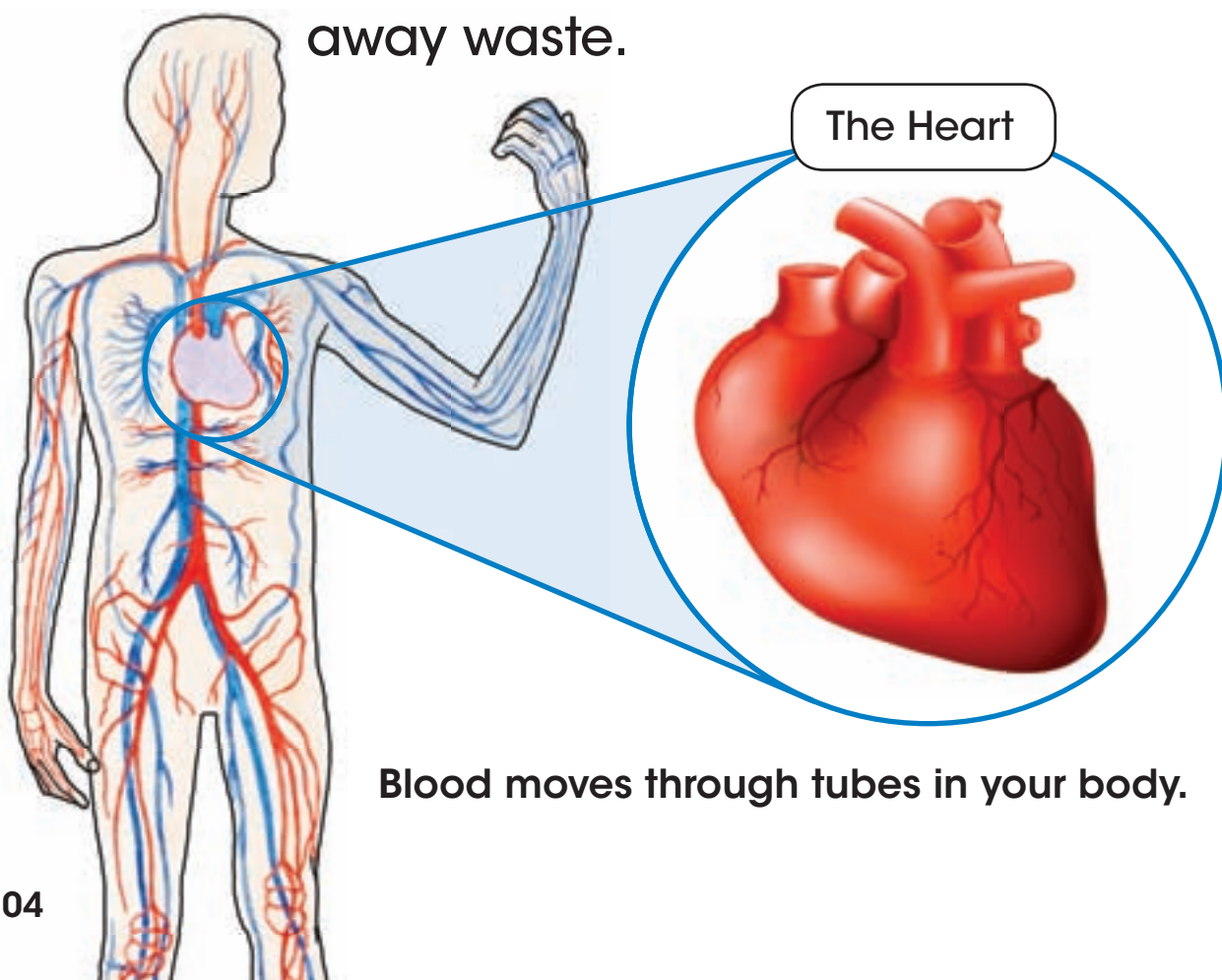


Check out your *Science Journal* for a Structured Inquiry about your heart beats.

Discover

A Busy Heart **Explain**

Put your hand over your chest and feel the beats. This is your heart. Your **heart** is a muscle that pumps blood through your body. The **blood** carries food and oxygen to your body. Blood contains small parts called cells. Red blood cells carry oxygen. They make your blood look red. The liquid part of blood is yellow. The liquid part carries food and takes away waste.



Blood moves through tubes in your body.



When it is cool outside, your skin helps you stay warm. When it is hot, your skin sweats to help you cool down.

 What else do you think skin can do?

A Colorful Cover

Skin is your body's cover. It keeps your other parts together. Skin guards your body. It also helps keep you from getting too hot or too cold.

The biggest part of your body is skin. It comes in different colors. It lets you feel the things you touch. It helps keep water and harmful things out of your body.



Think About It

Why do you think skin is the biggest part of your body?



Focus on Health

A bandage is used to cover a cut. It helps stop bleeding. It helps prevent germs from getting inside your body.

Different Bodies Explain



Think About It

Why do you think some of your classmates are taller than others?

Each person is special. God loves you very much. He gave you the body parts you need to be happy and healthy. People do not all look the same, but they have the same body parts. All people are made in God's image.

Your body parts will grow until you become an adult. People grow at different speeds. One thing is sure—you will grow.

Explore-a-Lab

Directed Inquiry

 **How are your fingerprints alike and different from a classmate's?**

Use an ink pad and white paper. Press one fingertip onto the ink pad and then onto the white paper. Use a hand lens to compare your fingerprint with a classmate's.

Make a Connection **Extend**

Your lungs are body parts that help you breathe. It is important to keep them healthy. Make a poster showing one way you can help keep your lungs healthy.

Lesson Review **Assess/Reflect**

Summary: What are some parts of your body?

Your body is made of many parts, including a brain, heart, stomach, lungs, and skin. People have the same parts. But God made each person different and special. Your body will continue to grow.

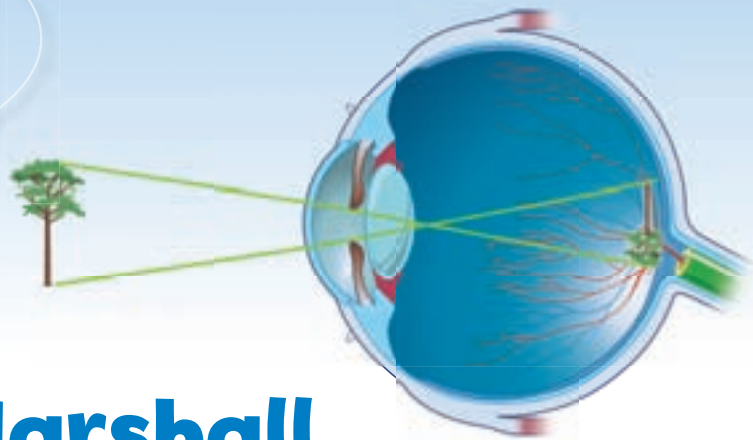
- 1. Graphic Organizer** Draw a picture of two body parts you can see. Draw some inside body parts. Label them.
- 2. Vocabulary** What part of your body takes **oxygen** from the air?
- 3. Test Prep** Which does your brain do?
A. removes waste **C.** breaks down food
B. carries oxygen **D.** controls your body
- 4.** What happens to your breathing when you run?
- 5.** How do the lungs and the heart work together?



Family Link Look at pictures of when you and your family members were younger. How have each of you changed?

People in Science

Extend

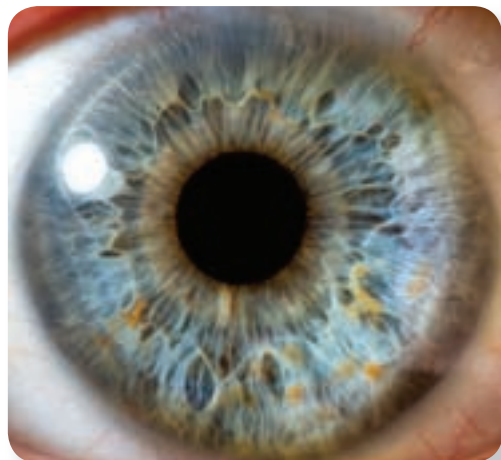


Get to Know

Dr. George Marshall

George Marshall is a scientist. He studies the eye. He learns about eye diseases. The human eye amazes Dr. Marshall.

The eye has many parts. All of the parts work together so you can see. **Matthew 6:22** says the eye is the light of the body. Dr. Marshall believes that the eyes prove God is the Creator. God made the eyes perfect.



Called to Serve

Dr. Marshall uses his talent to help others see God's Creation.



Concept Check

1. How does Dr. Marshall use his work to honor God?
2. How does the eye show Dr. Marshall that God is the Creator?

Optometrist

Many people wear glasses. An optometrist tells people if they need glasses. Optometrists do eye exams. An eye exam tests how well you can see. Optometrists look at your eyes to see if they work well. They check your eyes for diseases.

Optometrists work in offices. They have special tools. They can even look inside your eyes!



Concept Check

1. How are an optometrist and audiologist similar?
2. How can eye and ear exams help you to see and hear?

Careers in Science

Extend

Audiologist

Some people can not hear very well. They may visit an audiologist. The audiologist helps find out why people can not hear and works to find ways to help people hear better.

Sometimes the parts inside the ears do not work. To hear, the ears and brain must work together.

