Super-Journal Week 1:3

Every night, you should be reading at least 30 minutes of whatever book you have checked out from your assigned reading list. Tape or glue (but do not staple) this sheet into your Super-Journal on the left-side page. Fill in the table below *every day* by recording the required data.

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Day	Title	Start Pg.	End Pg.	Parent Sign.
Monday				(
Tuesday				
Wednesday				
Thursday			!	
Friday				
Saturday				
Sunday				,
i				

On the right-side page of your Super-Journal, answer two of the questions below throughout the week. Be sure that the questions you choose to answer go with the appropriate type of book (Fiction or Nonfiction). The Super-Journal is due on the first day after the weekend (usually Monday). To earn credit for your journal entry, you must respond in at least five complete sentences per response and use specific evidence from the text to support your claim based on what you've read this week.

FICTION

- What conflict or problem did you find in your reading?
- Summarize what has happened so far in the story.
- How did the characters solve the problem?

NONFICTION

- 4. What is the big idea the author has communicated in the text so far?
- Write a summary of what you learned from the text this week.

RL.1.2/RI.1.2

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RL.1.2/RI.1.2

Cross-Curricular Reading	Comprehension	Workshoots.	E40 -400
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Gas Exchange

Cross-Curricular Focus: Life Science

Did you know that your body has its very own gas exchange program that runs 24 hours a day? It's called the **respiratory system**. It is one of your body's vital systems, which means you could not live without it. Every time you take a breath, oxygen enters your lungs and is carried around to all the body's cells by the circulatory system. Waste products, like carbon dioxide gas, are picked up by the circulatory system as well. Carbon dioxide is dropped off at the lungs so you can breathe it out.

The respiratory and circulatory systems need each other. The respiratory system brings in oxygen and pushes out carbon dioxide. The circulatory system transports these gases where they need to go. The two systems work together to make sure that your body gets what it needs to survive. That is why we say that the respiratory and circulatory systems are interdependent. They need each other.

The respiratory system is not just your lungs. It also includes your nose, mouth, and the air passageways that connect them to your lungs. After you inhale air through your nose and mouth, it enters a tube in your throat called the trachea. Right before the trachea gets to your lungs, it splits into two smaller tubes called the bronchi. The deeper you go into your lungs, the smaller and smaller the tubes become as they keep dividing in two. The very smallest tubes end with tiny sacs. These sacs look like grape clusters under the microscope. These are called alveoli. They diffuse oxygen into the blood and receive carbon dioxide being returned to the lungs from the blood. Carbon dioxide travels out of your body when you exhale.

Your body has a special way of making sure that you can get the oxygen that you need when you breathe. Your chest actually changes-size when you inhale. You have muscles that are attached to your ribs. These muscles pull up when you inhale. Your diaphragm, a large muscle under your lungs, pulls down. This gives plenty of room so you can get the air you need.

Name:
Answer the following questions based on the reading passage. Don't forget to go back to the passage whenever necessary to find or confirm your answers.
What is the purpose of the circulatory system?
2) Identify the parts of the respiratory system.
3) What is the function of the alveoli?
4) How does the body get rid of carbon dioxide?
5) How does your body make room for a deep breath?

Name

It Circulates

Cross-Curricular Focus: Life Science



The **circulatory** system is the transport system of the human body. Your body is like a map filled with passageways-of different sizes that are filled with blood. **Arteries** and **veins** are the body's largest blood vessels. Arteries carry oxygen-rich blood from the lungs and through the heart so it can be delivered to all the cells of the body. Veins carry carbon dioxide waste back to the heart and into the lungs so the carbon dioxide can be exhaled. **Capillaries** are the tiniest blood vessels. They are especially helpful in the lungs, where the gas exchanges take place in air sacs called alveoli. Under a microscope, alveoli look like grape clusters.

At the very center of the circulatory system is the heart. Your heart is about the same size as your fist, but it is made of muscle. Its job is to pump your blood through all those blood vessels. It never stops working, even when you are sleeping. It is the strongest muscle in your body. Your heart has four chambers, or spaces, inside it. They are the left and right ventricles, and the left and right atriums. Each chamber is separated by a valve that allows blood flow in only one direction. The opening and closing of the valves is what you can hear through a stethoscope when you visit the doctor. The blood being pushed through the valves is what you feel as your pulse.

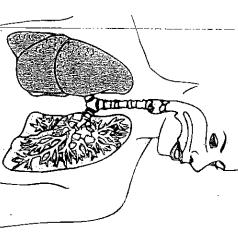
Blood looks like a simple red liquid when you have a cut or a scrape. That's only because your eyes cannot see what is going on inside the blood at the microscopic level. The reason blood looks red to us is because it contains an iron-rich substance called hemoglobin. Hemoglobin allows blood to hold on to oxygen and carry it around the body. Hemoglobin is found in disc-shaped cells called red blood cells. There are also white blood-cells in our blood. They are larger than red blood cells and are important because they help us fight disease. Platelets, another kind of cell found irrour blood, help us form scabs when we are injured so we don't lose too much blood. All of these cells float in a liquid called plasma. Plasma also carries sugar to cells and waste products away from cells.

readir the pa	er the following questions based on the ng passage. Don't forget to go back to assage whenever necessary to find or m your answers.
1) W ha	at is the function of the white blood cells?
2) How	v are arteries and veins alike?
	ed on other information in the passage, ases are being exchanged in the alveoli?
———4) Wha	at is the main idea of this passage?
5) Wha	at does hemoglobin do?

Name.

1 Breathtaking System

An adult's lungs can hold five quarts of airl How large a balloon do you think it would take to hold that much air?



When you breathe in air through your nose and mouth, you get oxygen. You need oxygen to live. The air goes down your windpipe and into your lungs. Your lungs absorb oxygen from the air. The oxygen travels in the blood to every part of the body.

Your body uses axygen to burn food and to give you energy. You make carbon dioxide when you do this. The blood carries the carbon dioxide back to the lungs. Then it is breathed out. This whole process is called respiration.

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Directions: Use the number code to label and color the diagram of the respiratory system.

A Breathtaking System

Hespiratory system

- r rou take in air through your nasal passage. Color it green
- 2. The **pharynx** connects your mouth and nasal passages. Color it yellow. 3. The **epiglottis** is the flap of cartilage behind your tongue. It helps close the opening to your windpipe when you swallow. Color it red.
- 4. The larynx is made of muscle and cartilage.

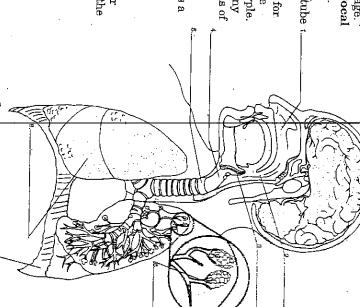
It is where your vocal cords are located.
Color it brown.

5. The trachea is a tube that serves as the main passageway for air to and from the

lungs. Color it purple.
6. The alveoli are tiny
air sacs at the ends of
the bronchioles.

Color them red.
7. The diaphragm is a wall of muscle and connecting tissue.

Color it gray.
8. The lungs absorb oxygen from the air you breathe. Color the left lung blue.



Research: Your right and left lungs are not identical. Find out how they are different.

Bonus: Sit quietly and listen to your breathing. Count how many times you breathe in and out each minute. Stand up and do 25 jumping jacks. Then count your breaths again. How does exercise affect breathing? Write a true statement about this.

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10. The process of breathing in and out is called



Use the words in the box to fill in the blanks.

_				
away	capillaries	nutrients	arteries	veins
heat	dark	energy	oxygen	transport
₽	bright	carbon dioxide	lungs	circulatory
atmosphere	intestine	pumped	heart	blood

The vessels that transport blood from the heart are called arteries. The blood in arteries is red because it is rich noxygen. The vessels that transport blood red because it is rich noxygen red are small vessels that join the arteries and veins are small vessels that join the arteries and veins from food are also transported around the body by the circulatory system. They enter the blood from the small The circulatory system also helps to regulate	system. The circulatory system consists of a liquid called and a series of vessels called One thing that must be transported around is a gas called Oxygen enters the blood through the through the heart and around the body where it is used along with food to make which is a waste product. This gas is carried back to the heart and then to the lungs where it is released back into the
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The Circulatory System

Find the circulatory

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four chambers circulate dark red heart red blood cells nutrients oxygen dund white blood cells

water

bright red capillary

artery

aorta

carbon dioxide

lungs

transport

valve vein

blood

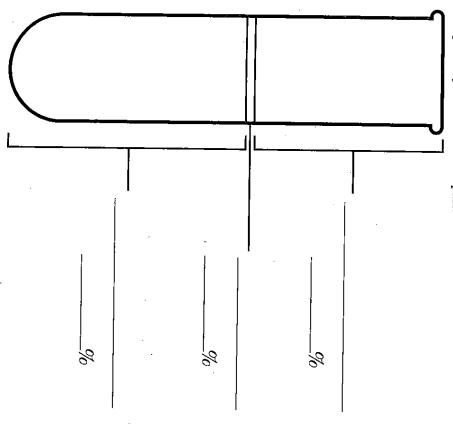
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Name

Oxygen And Nutrient Carrier

heaviest part is above that, and the lightest part is on the top. part of the blood, which is also the largest amount, is at the bottom. The next In a laboratory test tube, blood can be separated into its parts. The heaviest

and color the plasma yellow. Label each part. the red blood cells red. Leave the part that shows the white blood cells white, Directions: Can you tell from the text which part is the red blood cells? Color

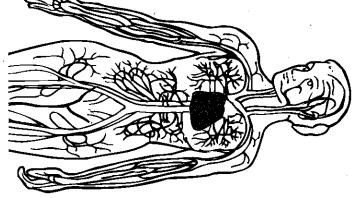


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20

A Busy Pump

There are approximately nine pints of blood circulating through your body.



would die. Why? Because your heart out oxygen and food your body's cells. You cannot live withpumps blood full of oxygen and food to If your heart stopped beating, you

four chambers—two thin-walled atria about nine ounces. The heart consists of ventricles.(auricles) and two powerful, muscled about the size of your fist. It weighs Your heart is a hollow muscle. It's

it through the *aorta* into the arteries. full of oxygen from the lungs and pumps oxygen and gives up carbon dioxide. passes through the lungs, it takes on pumps blood to the lungs. As the blood blood from the great veins known as the the heart consists of the right atrium alternating rhythms. The right side of The left side of the heart receives blood *inferior* and *superior* venue cavae and and ventricle. The right side receives The heart works like two pumps with

Directions: Use words from the text to complete the statements

Your heart is a
muscle.

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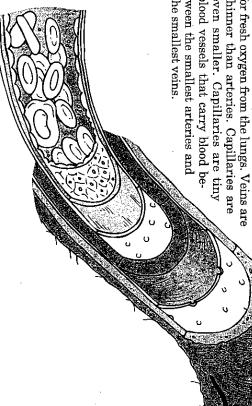
Name

Tubes For Carrying Blood

If your blood vessels were laid end to end, they would stretch around the equator 2 1/2 times!

action of your heart. It travels in tubes called blood vessels Blood is pushed through the circulatory system by the pumping

arteries, veins, and capillaries. The arteries carry even smaller. Capillaries are tiny for fresh oxygen from the lungs. Veins are the heart. Veins carry blood back to the heart tween the smallest arteries and thinner than arteries. Capillaries are blood, rich with oxygen and nutrients, away from the smallest veins. blood vessels that carry blood be-There are only three kinds of blood vessels:



Directions: Write T for true or F for false before each statement.

- Blood is propelled through the body by the pumping action of the heart
- There are three kinds of blood vessels: arteries, veins, and capillaries.
- Arteries carry blood that is rich with carbon dioxide away from the
- Capillaries are the largest blood vessels
- Veins are wider than arteries

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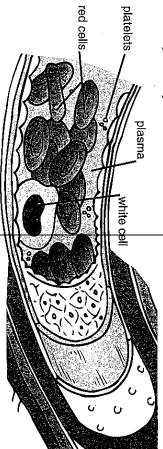
17

Oxygen And Nutrient Carrier

Indianapolis 500! The heart pumps blood so fast that it takes only a Your blood cells rush around the body faster than race cars at the minute for each blood cell to travel all the way around your body.

lets rupture and release enzymes that promote blood clotting. white blood cells fight disease. Some white blood cells are able to are disc-shaped and carry oxygen to all parts of your body. The Each part of your blood has a specialized job. Your red blood cells destroy bacteria and other foreign particles in your body. Tiny fragments called platelets are important in blood clotting. Plate Blood consists of red cells, white cells, platelets, and plasma.

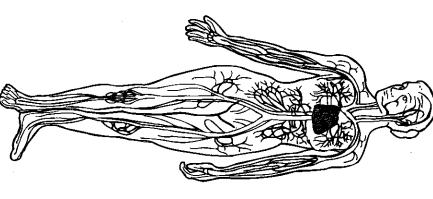
ish and about 90% water. You have about nine pints of blood in 2% white blood cells. *Plasma* is the fluid part of blood. It is yellow-Blood is made up of about 55% plasma, 43% red blood cells, and



find the answer for each question. Directions: Use a number from the text to answer each question, or research to

- 1. What percentage of your blood is plasma?
- 2. What percentage of your blood is white blood cells?
- 3. What percentage of blood plasma is water?
- 4. What percentage of your blood works to carry oxygen throughout your body?
- 5. What percentage of plasma is not water?

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An Efficient System

When you reach adulthood, your heart will beat more than 100,000 times each day!

oxygen, antibodies, and hormones to the oxygen from the lungs and nutrients from cells of your body. The heart is the pump blood vessels, and blood—carries nutrients system-which is made up of your heart, blood vessels. On its journey, blood picks up perature of your body. The circulatory jobs. It moves blood and regulates the temthe digestive system. that keeps your blood moving through the The circulatory system has two important

circulatory system does all of this work with about four to five quarts of blood is brought to the surface to be cooled. The ture. Your circulatory system helps your body has a fairly steady body temperamaintain this constant temperature. Warmer blood from the center of your body Because you are a warm-blooded animal,

Directions: Use words or short phrases to answer the questions

1. Name the system that carries blood throughout the body

List three things that make up the circulatory system.

က Name two functions of the circulatory system

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An Efficient System

Circulatory system

Directions: Use words or short phrases to	
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words or sho	
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phrases	
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swer the questions	

1. Name the body parts that carry blood

2. The blood picks up oxygen from which body parts?

4. Where does the blood take oxygen and nutrients?

What does the blood pick up from the digestive system?

Ò How is warmer blood from the center of yout body cooled?

Research: Who is Barney Clark? What courageous thing did he do that advanced medical study of the

24 hours. many times your heart will beat in one hour and quietly for one minute and count the pulse beat gertips of your right hand on the underside of your your heart beats, take your pulse. (Place two fir Bonus: To find out how many times per minute Using this number, figure out approximately how left wrist just below the base of your thumb.) Si E.

15

16