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HUMAN BODY SYSTEMS

Human Body Organs and Systems

Date:

WORD SEARCH

DIRECTIONS: Find the human body organs and systems vocabulary words in the word search below. Words can be found down, across, and diagonally. Then, on a separate piece of paper, write sentences for five of the words.

| | | WORD BANK | | |
|--------------|-------------|--|-----------------|---|
| cell | digestive | circulatory | brain | small intestine |
| tissue | muscular | excretory | spinal cord | liver |
| organ | nervous | heart | blood | kidneys |
| organ system | immune | lungs | stomach | veins |
| skeletal | respiratory | skin | large intestine | arteries |
| | | under de la company de la comp | | THE REPORT OF THE PROPERTY OF |

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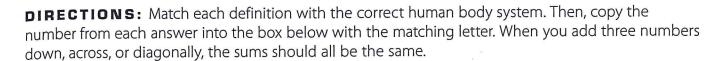
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HUMAN BODY SYSTEM:

Organ Systems of the Human Body

MATCHING/MAGIC NUMBER



1. ____ made up of several types of organs that help the body a. muscular perform different jobs excretory 2. ____ allows the body to move immune **3.** _____ breaks down food and absorbs nutrients skeletal **4.** helps protect the body from disease and infection nervous **5.** ____ controls the body's functions and senses the digestive environment outside the body **g.** respiratory **6.** takes oxygen into the body and releases carbon dioxide **h.** organ system 7. ____ supports the body and protects its internal organs i. \circulatory **8.** ____ uses blood to bring nutrients and oxygen to cells of the body removes wastes

| a. | b. | C. |
|----|----|----|
| d. | е. | f. |
| g. | h. | i. |

MAGIC NUMBER = _____

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| | 7 | |

MAN BODY SYSTEMS

Name That Body System

DIRECTIONS: Each system of the body has a specific job. It works together with other body systems to keep the body healthy. Match each body system to its description below.

| 28 | | | | | acacilption be | iow. | | |
|-------------|--|--|--------------------------------|---------|--|---|--|--|
| 100 | | | WORD | | BANK | | Total Processing Control of Contr | |
| Caterianens | muscular | circulatory | digestive | FT/// P | skeletal | nervous | respiratory | |
| | dioxide, fron | olies, such as food o pick up wastes, s n these cells and de | uch as carbon | 4 | move, walk, | nain jobs is to he run, and stretch. | | |
| | l help fight d | liseases with specia | l blood cells. | | basu tood do | ood move through own the esophagu ih food into smalle | is and holp the | |
| | Some of my and veins. | organs are the hear | rt, arteries, | | | organs are the stor | | |
| | Who am I?_ | | | | Who am !?_ | : | | |
| 2 | I take food in into smaller p food materials | nto the body and b ieces. I also get rid s. | oreak it down of unused | 5. | | into the lungs. I p tream. | ace this oxygen | |
| | I place nutrien | its in the blood stre | am which | | l also remove c | arbon dioxide fro | m the body. | |
| | Carries them to | o all of the body's o | body's cells. | | Some of my organs are the lur | | - | |
| | Some of my or esophagus, lar | rgans are the stomage ge intestine, and sr | ach, nall intestine | | and mouth. | | | |
| | Who am I? | | | | Who am I? | | | |
| 3. | One of my job internal organs blood cells. | os is to protect the s. I also produce re | body's 6 d and white | | My main job is environment. I a systems of the b | to help the body also control all of t | sense its he other | |

I give the body shape and work with muscles to help the body move, jump, and stand.

Some of my organs are the skull, femur, vertebrae, and rib cage.

Who am I?_

When the body comes into contact with hot objects, I use reflexes to prevent bodily injury.

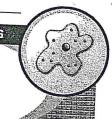
Some of my organs include the brain, spinal cord, and nerves.

Who am I?_

| Name: | |
|-------|--|
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HUMAN BODY SYSTEMS

Human Organs and Organ Systems



CATEGORIZING

DIRECTIONS: Place a check mark in the box to show which body system each organ is a part of. Remember, an organ can work with several body systems.

| Organ | Skeletal | Digestive | Muscular | Nervou | s Immun | e Respira | tory | Circulatory | E |
|-------------|---|-----------|----------|----------------------------------|---------|-----------|----------|-------------|-----------|
| skull | | | | TO BE THE SHAPE OF THE SHAPE AND | 14.00 | • | | circulatory | Excretory |
| femur | | | | | | | | | |
| vertebrae | | , | | | | | - | | |
| stomach | | | | | | | - | | |
| intestines | | | | | | | - | | |
| mouth | | | | | | | 4 | - | |
| esophagus | | | | | | | + | | |
| kidneys | | | | | - | | i | | |
| eyes | | | | | | | + | | _ |
| brain | | | | | | | + | | |
| spinal cord | | | | | | | - | | |
| nose | | | | | _ | | - | | |
| skin | | | | | | | | | |
| lungs | | | | | | | + | | |
| trachea | | | | | | | \bot | | |
| epiglottis | | | | | | | - | | |
| heart | | | | | | | _ | | |
| arteries | | | | | | | <u> </u> | | |
| capillaries | | | | | | | | | |
| veins | | | | _ | | | | | |
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| デッ う \ | HUMAN BODY SYSTEMS | |
| رنز | How Does Exerci | se |
| Company of participation of participatio | Affect Your Heart F | late? |

INQUIRY INVESTIGATION

What causes your **pulse**? Each time the ventricles of the heart contract, or get smaller, blood is forced into the arteries. Each beat of the heart makes the arteries stretch, which causes the pulsing sensation that you feel. As blood is being pushed out of the heart with great force, it moves very quickly so that it can reach parts of the body that are far from the heart.

In this activity, you will find your pulse rate and calculate the number of times that your heart beats per minute. Then, you will look at the class data to see if boys and girls have different pulse rates.

PROCEDURE:

- 1. Sit in a chair and relax for 1 minute. Use your index and middle fingers to locate your pulse on your wrist or neck.
- 2. Count the number of times that you feel your pulse for 15 seconds. Multiply this number by 4. This will be your resting pulse rate for 1 minute. Record this number on the chart below.
- 3. Jog in place for 1 minute. After 1 minute, stop jogging and use your index and middle fingers to locate your pulse on your wrist or neck. Calculate your pulse rate as you did in step 2. Record this number in the Active Pulse Rate column.
- **4.** Repeat steps 1–3 two additional times. Then, calculate your average heart rate by adding the three trials and dividing by 3.

| Trial | Resting Pulse Rate | Active Pulse Rate |
|---------|---|-------------------|
| 1 | Appendix of the second | |
| 2 | | |
| 3 | | |
| Average | | |

| Your teacher will create two columns on the board, one for boys and one for girls. Write your average resting and active pulse rates in the correct columns. Then, calculate the average pulse rate for boys and girls in your class. Do boys and girls have different pulse rates? How can you explain this? |
|---|
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Date: _

HUMAN BODY SYSTEMS

Amazing Human Body Math Facts



MATH SKILLS

DIRECTIONS: Answer the following math problems. Use the space below each problem or a separate piece of paper to show your work.

1. When the human brain is developing, it creates 250,000 neurons (brain cells) a minute. How many brain cells does it create in one day?

Answer: ____

4. 15,000,000 blood cells are destroyed every second to make room for new blood cells. How many blood cells are destroyed every hour?

Answer: _____

2. The average human head weighs about 8 pounds. If an average man weighs 160 pounds, what percentage of his weight does his head make up?

Answer:

5. An average human body is 80% water. How many pounds of water are found in a 150-pound human?

Answer:

3. Average humans blink their eyes 6,205,000 times each year. If a person is awake for 16 hours a day, how many times will she blink a day? An hour? A minute?

Answers: _____

6. During a 24-hour period, average humans will breathe 23,000 times. How many times will they breathe in one year? 20 years? 50 years?

Answers:

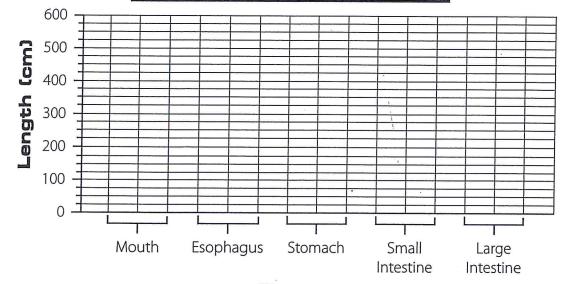
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Digestion Math

GRAPHING AND ANALYZING DATA

DIRECTIONS: Food travels a long distance through the digestive system. Use the following information to create a bar graph. Then, answer the questions below.

| Organ | Length (cm) |
|-----------------|-------------|
| Mouth | 7.5 cm |
| Esophagus | 25 cm |
| Stomach | 25 cm |
| Small intestine | 600 cm |
| Large intestine | 150 cm |



Organs

- What is the total distance that food will travel through the digestive system?
- What percentage of the distance in the digestive system does the large intestine make up?

Answer:

What percentage of the distance in the digestive system does the small intestine make up?

2.

How many times longer than the large intestine is the small intestine?

Answer:

Answer:

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HUMAN BODY SYSTEMS



A Day in the Life of a Cell

CREATIVE WRITING

| 20 M 1 1 1 M C |
|--|
| You might be a blood cell that moves throughout the blood vessels, a cell in the stomach that helps digest food, or a muscle cell in the leg of an athlete. Use science books, encyclopedias, or the Internet to help you write a first-person short story that describes what it would be like to live as one of these cells for a day. Remember to describe what you might see, hear, feel, and smell during your experience as a human body cell. |
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