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Name: \_\_\_\_\_  
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Class: \_\_\_\_\_  
Ms. O'Sullivan

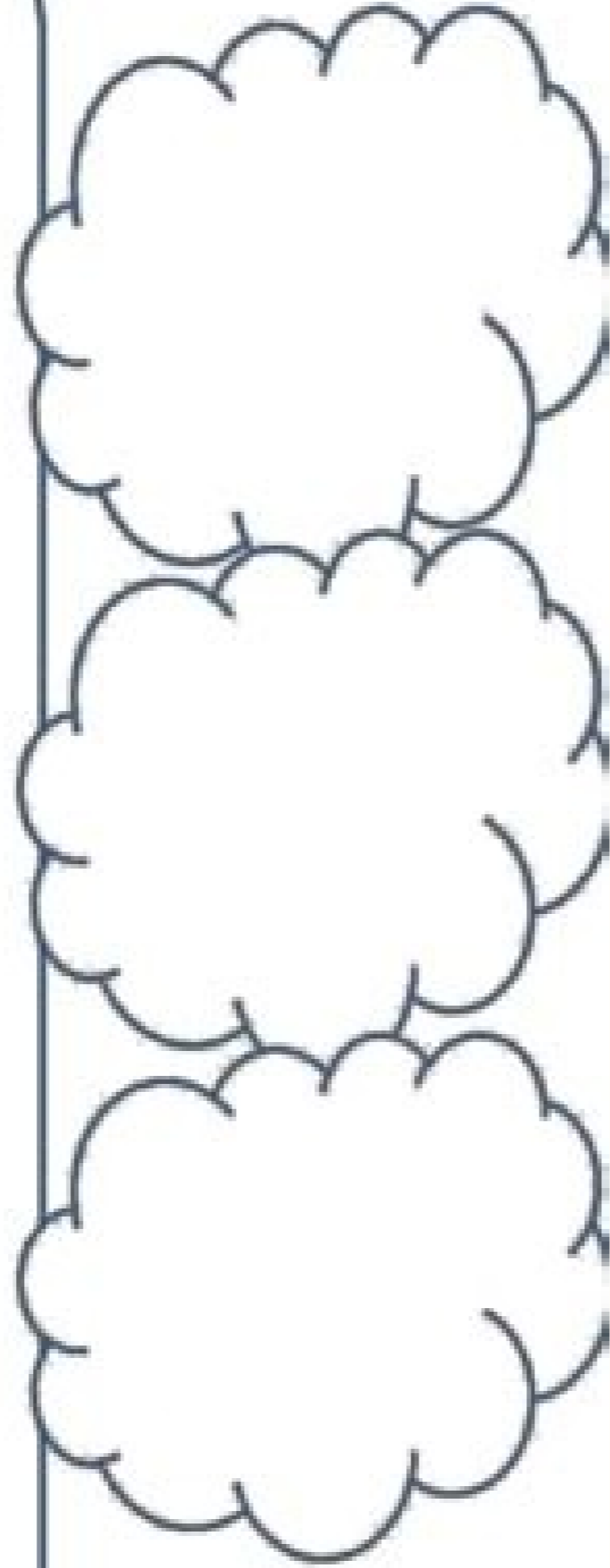
**Reading Activity: The Organization of the Human Body**

**DIRECTIONS:** Read below with your partner, switching who is the reader and who is the summarizer each paragraph. The cloud should contain the MAIN IDEA of each paragraph.

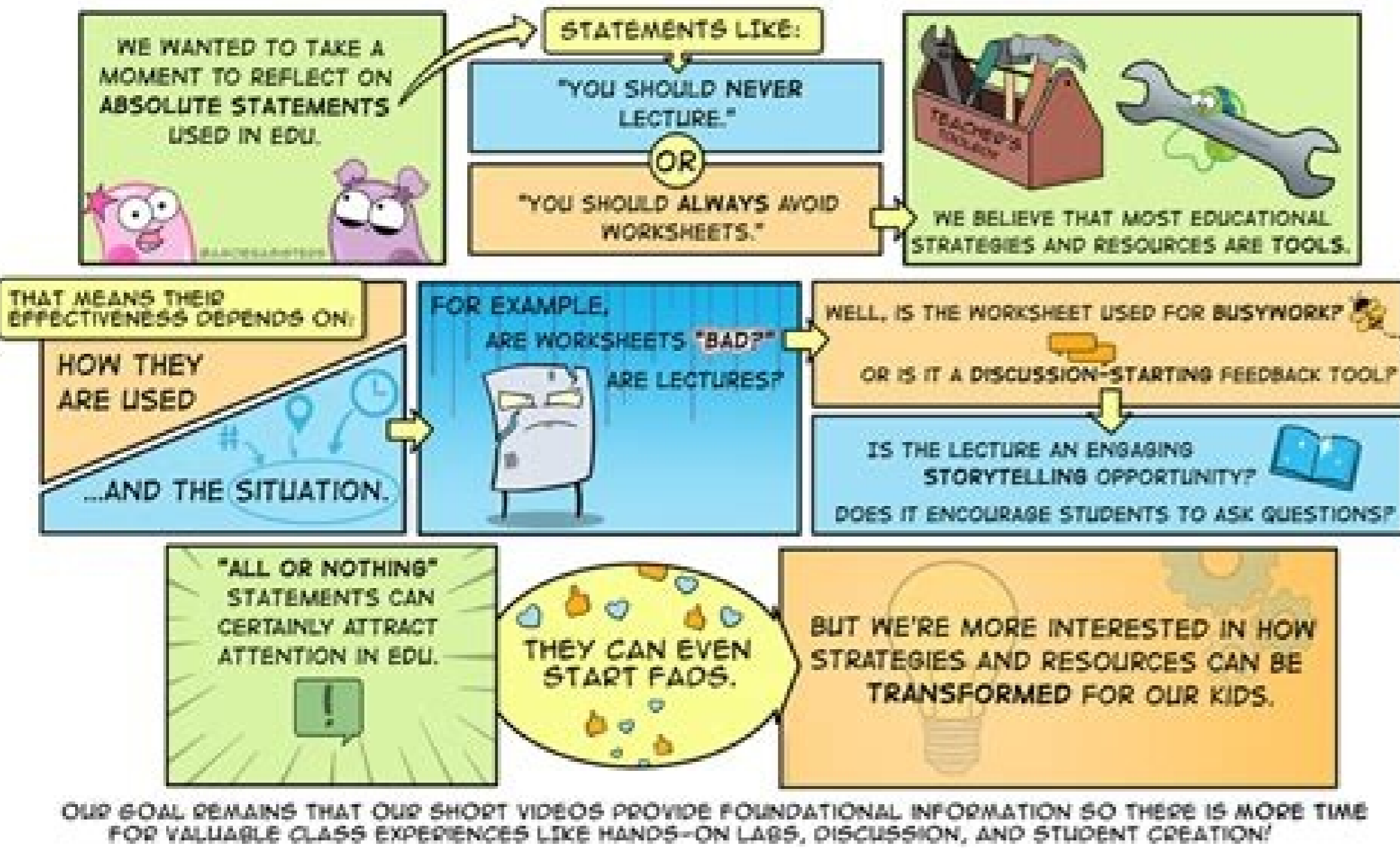
Imagine you're at lunch. Your nose smells pizza. Your legs move over to where hot lunch is being served. You have to balance the food and your milk in your hands, look around for a free seat, and then sit down. This may seem simple; many different parts of your body have to work together to make all of that happen. To make sure your body can work correctly, even when it does many things at once, your body must be carefully organized.

The smallest unit of our organization, our smallest part, is the **cell**. The cell is the building block of all living things, but you probably remembered that! Each human body is made up of over 100 trillion cells that have different structures and different functions. We have blood cells that carry oxygen to our muscles, and nerve cells that carry electrical impulses from our brains to the rest of our bodies. If the whole body is like a city, a cell is just one simple brick.

The next largest unit of organization in your body is a **tissue**. No, that's not the same thing as what you blow your nose with. A tissue is a group of similar cells working together. If the whole body is a city, and a cell is just one brick, a tissue is one step bigger – a house.



Nervous tissue, one of the four types of tissue in the human body.



**Aerobic Respiration**

Energy is released in a process called **respiration**.  
Glucose is sourced from **digested food** and is carried around the body in the **blood**.  
In the cells, **glucose** combines with **oxygen** to give **carbon dioxide** and **water**.  
This is called **aerobic** respiration, because it needs oxygen from the **air**.  
Oxygen enters the **lungs** and carbon dioxide leaves via the **respiratory** system.  
The **circulatory** system consists of the **heart** and **blood vessels**.  
The blood delivers oxygen and glucose to the **cells** where respiration occurs.  
The word equation for respiration is:



Energy is in brackets because it is not a chemical **substance**.

**Extra Challenge**

1. Explain why aerobic respiration is similar to burning wood?

Oxygen is used to 'burn' a substance to produce energy.  
With wood, carbon dioxide, water and heat/light energy are produced.  
In respiration, glucose is 'burned' to produce carbon dioxide, water and energy for the cells to live.

2. All the windows in the science block are jammed shut. One small room in the block is full of people for several hours. A similar room next door has just one person in it. What do you think would be different about the air in the two rooms?

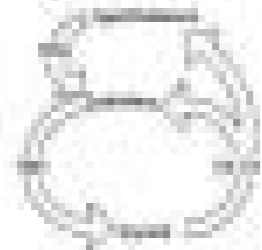
The room full of people has more carbon dioxide and less oxygen than the room with only one person.

Biology Systems Test Review

Name \_\_\_\_\_

- Which of the following refers to what happens during an infection?
  - Low number of platelets result in uncontrolled bleeding, while a shortage of red blood cells results in anemia
  - Blood vessels transport pathogens, nutrients, and oxygen to cells and wastes and carbon dioxide away from cells
  - Redness indicates increased blood flow which allows white blood cells to promote healing by removing pathogens
  - Flushing action of blood washes pathogens from the infection site
- What would cause the release of ADH and the slowing of kidney activity?
  - Increase of sugar in blood
  - Decrease in heart rate
  - Decrease in level of water in kidneys
  - Decrease in level of water in blood
- When blood sugar levels are high, what does the liver convert it into?
- True or False: Organ systems act independently of each other
- True or False: Organ systems interact and depend upon each other to function properly
- True or False: Organs are self regulated and have no direct effects on other systems
- True or False: Organs function only within one system

8. What does the diagram illustrate?

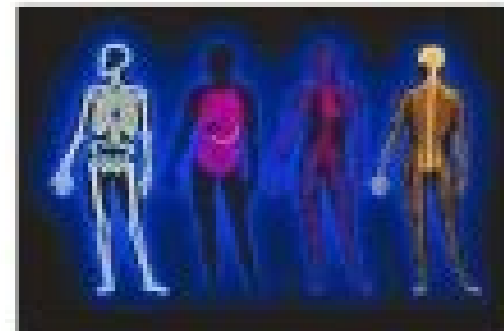


- Positive feedback between the thyroid and brain
- Recycling and exchange of hormones
- Structure and function of endocrine and nervous system
- Self-regulation between glands of the endocrine system

Animal Organ Systems Cloze

Fill in the blanks with words from the box.

cells excretory respiratory	circulatory muscular skeletal	digestive nervous systems	endocrine organs tissues
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Can you identify the organ systems shown in the picture above?

\_\_\_\_\_ are the basic building blocks of living organisms. Cells work together with similar cells and form \_\_\_\_\_. These tissues then combine to form \_\_\_\_\_, which in turn are connected together in organ \_\_\_\_\_.

Your lungs, for example, are part of the \_\_\_\_\_ system, which is responsible for bringing oxygen into your body and releasing carbon dioxide into the atmosphere. Your heart is part of the \_\_\_\_\_ system, which is responsible for circulating blood containing food and oxygen to all of the cells in your body. Your stomach is part of the \_\_\_\_\_ system, which is responsible for breaking down food so that your cells can use it. Your kidneys are part of the \_\_\_\_\_ system, which is responsible for eliminating waste from your body. Your bones are part of the \_\_\_\_\_ system, which give your body structure. Your muscles are part of the \_\_\_\_\_ system, which allows your body to move. Your brain is part of the \_\_\_\_\_, which controls muscle movement and your senses. Finally, your glands are part of the \_\_\_\_\_ system, which produces hormones that regulate your body.



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www.qldscienceteachers.com Homeostasis This is the tendency to maintain stability or uniformity in an organisms internal environment. Stimulus Response Response Effector coordinating system Visual resources for science classrooms who enjoy using interactive notebooks, word walls, and creativity. Last updated 22 February 2018 Homeostasis worksheets with answer key go over negative and positive feedback. Maintaining Water Balance Water is essential to the body for chemical reactions to take place within cells. If body temperature falls below 37°C The muscles may to produce heat through friction, skin muscles may contract to produce insulating air pockets next to the skin with goosebumps and upright hairs, and the person consumes drinks or finds warm shelter. A Stimulus-Response Model Maintaining Human Body Temperature (37°C) 1. Our customer service team will review your report and will be in touch. Maintaining Salt Balance Excess salt in humans is excreted in both and . 2. Students must choose the correct word to fill in each blank in the paragraph from the word bank provided below it. Please log in to post a comment. If body temperature rises above 37°C The skin produces which cools the body by using excess body heat to it. There is a teacher answer key provided. A balance is maintained of t , and of chemicals such as water, salts and g . The amount of water consumed should the amount of water lost through breathing out, sweating, urination and defaecation. Examples such as blood sugar, body temperature, stress, labor & delivery and blood clotting are covered. homeostasis, feedback regulation, feedback loop, positive feedback, negative feedback, hormone, secrete, endocrine gland, blood pressure, uterine contraction Report this resource to let us know if it violates our terms and conditions. Also the body can consume drinks, find cool shade, radiate heat through the or by breathing out warm air, and by defaecation or urination. Use this one-page worksheet as part of your unit of study on homeostasis/feedback/regulation. Tes paid licence How can I reuse this? Select overall rating (no rating) Your rating is required to reflect your happiness. It's good to leave some feedback. Something went wrong, please try again later. Plenty of detail for HS anatomy to generate interest without overwhelming detail! I will use this in the introductory unit to review homeostasis while drawing attention to functional relationships in different systems. Empty reply does not make any sense for the end user Report this resource to let us know if it violates our terms and conditions.

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