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- Reading Comprehension

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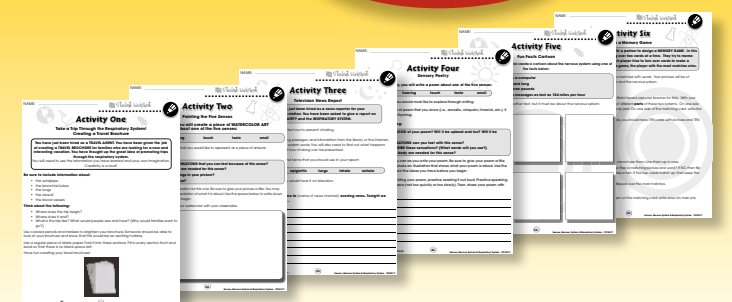
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The Respiratory System-Lungs

1. Use your dictionary to look up the meanings of the words below. Write the definitions in the space beside each word.

| | |
|----------|--|
| inhale | |
| exhale | |
| sac | |
| branches | |
| alveoli | |

2. Use the words from Question 1 above to complete the statements.

- a) When we breathe in, we _____. When we breathe out, we _____.
- b) The _____ are small _____s that fill with air when we inhale.
- c) Our lungs are like trees. This is because one main "trunk" _____ into many smaller "twigs".



The Respiratory System - Lungs

A human has a pair of lungs. Our lungs are the most complicated part of the respiratory system. Our lungs fill our chest and are protected by our ribs. Did you know that each lung is about the size of a football? When a lung fills with air it gets much larger. To feel your lungs get bigger, take a deep breath. Feel how your chest changes shape and gets bigger when you breathe air in (**inhale**). Your lungs **expand** as they fill with air.



Our Lungs Look Like a Tree

A good way to picture our lungs is to think of a tree. Lungs have a solid trunk, just like a tree. Lungs also have **branches** that get smaller the further up you look. Our lungs are like an **up-side-down** tree. The **trachea (windpipe)** is like the trunk. It separates into two main branches, called the **bronchial tubes**. Each branch, or tube, leads into one of our lungs. These tubes branch many more times into thousands of "twigs". At the end of each "twig" is a small **sac** called the **alveoli**. The alveoli are like balloons; they fill with air when we breathe in. The inside **surface** of the alveoli is covered in tiny blood vessels. The blood vessels move **carbon dioxide** from the bloodstream into the lungs. Then, this gas moves out of the lungs as we breathe out (**exhale**). The blood vessels also take **oxygen** from the lungs to every part of the body.

Our Lungs Work Like a Train Station

The job of our lungs is to take gases in and out of our body. We can also say that the lungs **transfer** gases. Imagine your lungs working like a busy train station. With every breath, two kinds of **passengers** (oxygen and carbon dioxide) travel in and out to their **destination**. We breathe oxygen into our lungs. Then it travels from our lungs into our **bloodstream**. Carbon dioxide travels from our bloodstream into the lungs. Then we breathe it out.

What is the main job of the lungs?



The Respiratory System - Lungs

1. Fill in each blank with a term from the list. **Two** terms will be left over.

air chest oxygen transfer pair carbon dioxide
lungs branches sac ribs expand exhale

The job of our lungs is to _____ gases. Humans have a _____ of lungs. Our _____ help protect our lungs from damage. Our lungs get bigger, or _____, when they fill with _____. The windpipe _____ into two bronchial tubes. These tubes branch into many smaller "twigs". At the end of each "twig" is a _____ that is like a balloon. This is where _____ from the air moves into our bloodstream. It is also where _____ is moved from the bloodstream into the lungs. Then, with our _____ we breathe the carbon dioxide out of our body.

2. Circle **T** if the statement is **TRUE** or **F** if it is **FALSE**.

- T F a) Our lungs are shaped like soccer balls.
- T F b) As we inhale, air moves out of our lungs.
- T F c) The main job of the respiratory system is to transfer two gases in the body.
- T F d) Carbon dioxide is taken out of our body when we breathe.
- T F e) The insides of the alveoli are covered in tiny blood vessels.
- T F f) From our lungs, oxygen is carried to all parts of our body.
- T F g) Oxygen is a gas that is in air.



The Respiratory System - Lungs

3. In what ways do the lungs look like trees?

4. Why do we say that the lungs work like a train station?

5. Is the **bloodstream** important for the respiratory system to do its job? Why or why not?

6. Label the respiratory system using the terms in the list. Use information from the reading, the Internet, or a book from the library to help you.

windpipe mouth nose bronchial tubes lungs

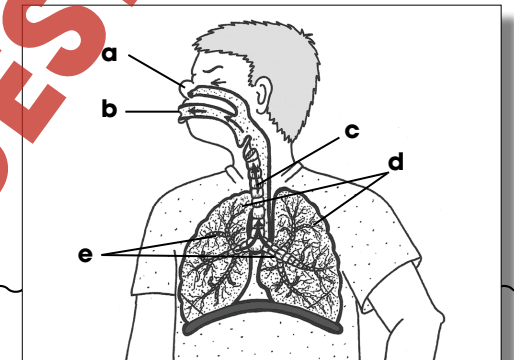
a) _____

b) _____

c) _____

d) _____

e) _____



Extension & Application

7. The **diaphragm** is a large muscle just below the lungs. It is important for breathing. Do some research to find out how this muscle helps us breathe.
8. Read about the **Heimlich Maneuver**. What is it? Find out how it works with the respiratory system to save people who are choking.

Memory Games – Touch and Sight

Part 1 - TOUCH

YOU WILL NEED:

- A small box or bag that you cannot see through. It should have an opening large enough for a hand.
- 12 different objects with a variety of textures (i.e., soft, scratchy, smooth, lumpy, etc.) and sizes
- a blindfold

Your teacher will give you these things. All the objects should be in the box or bag. You must **not** know what the objects are.

HOW TO PLAY:

1. Take 30 seconds to feel the objects in the box/bag. Try to guess what they are with only your sense of touch.
2. In your notebook, list what you think the things in the bag are.
3. Look in the box/bag. Beside your wrong guesses, write the correct answers so that your list is complete and correct. Are you surprised by your results?

Part 2 - SIGHT

YOU WILL NEED:

- 15 to 25 different objects or pictures
- A table or small tray to put the objects on
- A cloth to cover the objects

Your teacher will give you these things. You must **not** know what the objects are before you begin.

HOW TO PLAY:

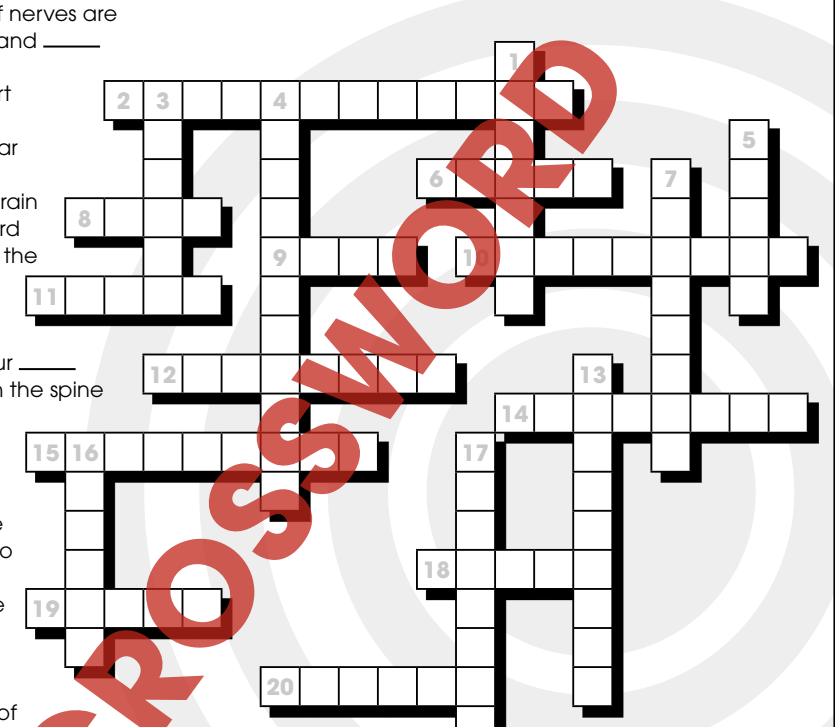
1. Take the cloth off the collection of objects. Look at the collection of objects for one minute.
2. Cover the objects with the cloth.
3. In your notebook, list what you remember seeing.
4. Look at the objects again. Make any changes to your list so that it is complete and correct. Are you surprised by your results? Did you remember everything?



Crossword Puzzle!

Across

2. The lungs work like a _____
6. The two kinds of nerves are sensory nerves and _____ nerves
8. The colored part of the eye
9. Helps us see near and far
10. Connects the brain to the spinal cord
11. The ear _____ is the tube that leads into the ear
12. Feeling pain is important for our _____
14. A single bone in the spine
15. Our mouth and nasal cavity are _____ inside our head
18. The _____ nerve links the retina to the brain
19. Nerve _____ are also called neurons
20. The spinal cord is a thick _____ of nerves



Down

1. The cerebellum is important for balance and _____
3. The back of the eye where the image is made
4. The receptors in our _____ allow us to smell
5. Sound enters the head through the _____ ear
7. Nerves carry _____ to and from the brain
13. The spinal cord is _____ by the vertebrae
16. We breathe in the gas called _____
17. The nervous system is like a _____

Word List

- | | |
|---------------|--------------|
| bundle | outer |
| train station | posture |
| lens | nasal cavity |
| vertebra | messages |
| cells | computer |
| motor | protected |
| iris | retina |
| brain stem | oxygen |
| canal | connected |
| survival | optic |

Part C Comprehension Quiz

Answer each question in complete sentences.

1. Name the **three** main parts of the **nervous system**. Describe what each part does. 6
2. Name **one** part of the **brain**. Describe where it is in the brain, and one main job it has. 3
3. Name **one** of the two kinds of **nerves** in the human body. Describe what they do in the body. 2
4. Describe what happens with **oxygen** and **carbon dioxide** in the respiratory system. Use the terms **inhale**, **exhale**, **lungs** and **bloodstream** in your answer. 4
5. Describe how our body feels **pain**. Use the terms **skin**, **sensory receptors**, **message** and **brain** in your answer. Why is it important that we can feel pain? 3

SUBTOTAL: /18

Nervous System



NAME: _____

After You Read 



The Respiratory System - Lungs

3. In what ways do the lungs look like trees?

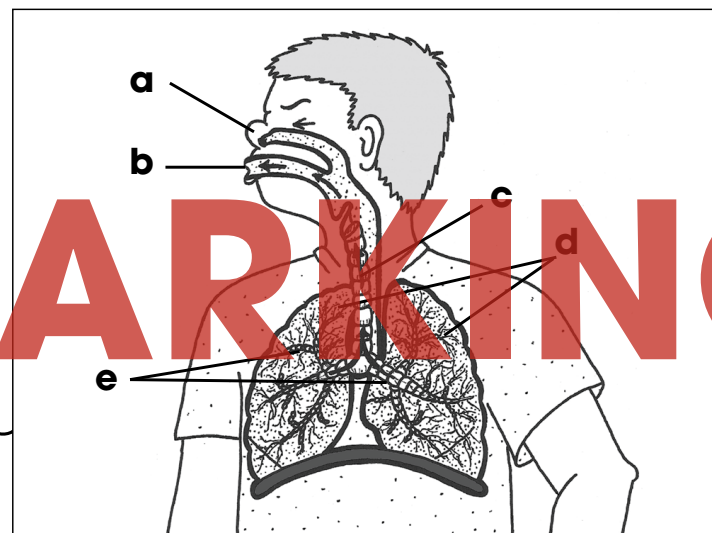
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windpipe mouth nose bronchial tubes lungs

- a) _____
- b) _____
- c) _____
- d) _____
- e) _____



EASY MARKING ANSWER KEY

Extension & Application

7. The **diaphragm** is a large muscle just below the lungs. It is important for breathing. Do some research to find out how this muscle helps us breathe.

8. Read about the **Heimlich Maneuver**. What is it? Find out how it works with the respiratory system to save people who are choking.

3.

Windpipe (trachea) is like a tree trunk that branches into smaller "twigs" the further away from the "trunk" they go

Answers will vary

11

4.

With every breath, two kinds of passengers (oxygen and carbon dioxide) travel in and out to their goal

5.

Yes - oxygen moves into the bloodstream (from the lungs/respiratory system), carbon dioxide moves out of the bloodstream to the lungs/respiratory system

Answers will vary

12

6.

- a) nose
- b) mouth
- c) windpipe
- d) lungs
- e) bronchial tubes

Answers will vary

13

7.

Answers will vary depending on resources used

Answers will vary

8.

Answers will vary depending on resources used

10

14

