

Chapter 14.3 Scavenger Hunt. (7th)

Date _____

Last Name _____, First _____ per _____

Pre- read chapter 14.3, starting on page 570 and find the answers to the scavenger hunt clues.

1. What is the **title** of chapter 14.3? _____

2. List the 11 **key terms** in section 14.3 page 570

a. _____	g. _____
b. _____	h. _____
c. _____	i. _____
d. _____	j. _____
e. _____	k. _____
f. _____	

3. **California Standards Focus -3 Green Keys**
 - a. Complete the three standards focus questions.
 - i. What are the _____ of the _____ system?
 - ii. What structures does _____ pass through as it travels through the _____?
 - iii. What happens during _____ and breathing?

4. **Lab Zone Standards Warm up on page 570**
 - a. What would you be measuring in this activity? _____

5. What are the boys in the **picture on page 570 holding**? _____

6. **What is the red heading on page 571?** _____

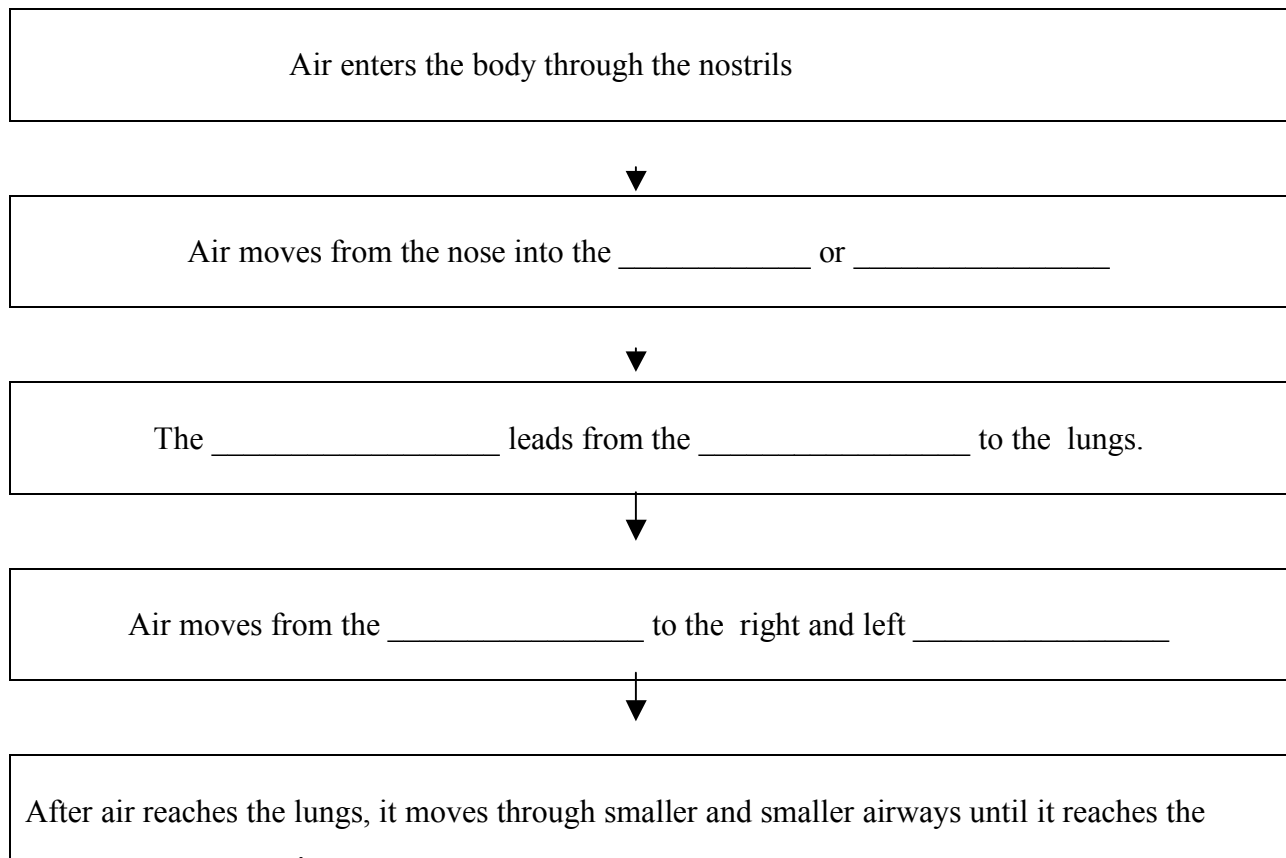
7. **What are the 2 blue headings on page 571?**
 - a. _____
 - b. _____

8. **Define the highlighted word on page 571**
 - a. Respiration _____

9. **Green Key page 571**
 - a. The bolded sentence explains 2 major functions of the respiratory system. What are they?
 - i. _____
 - ii. _____

10. **Math Analyzing Data “The Air You Breath”**
 - a. Based on the data, which gas is used by the body? _____
 - b. Explain. _____
 - c. Compare the percentage of carbon dioxide gas in inhaled air with the percentage in exhaled air. What is the difference? _____
 - d. Explain why there is a difference in CO₂ amounts. _____
 - e. Does the body use the nitrogen it inhales from the air? _____
 - f. Explain _____

11. **Figure 14 “Fueling Your Cells”**
- What two substances are carried to the cells by blood?
 - _____
 - _____
 - When oxygen and glucose are combined what is released? _____
12. What is the **blue heading on page 572**? _____
13. What is the **red heading on page 572**? _____
14. **Green Key on page 572**
- When air travels from the outside environment to the lungs, it then passes through which structures? _____, _____, _____, _____
15. **Define the Highlighted words on pages 573**
- mucus _____
 - _____
 - cilia _____
 - _____
 - pharynx _____
 - _____
16. **Figure 15 “The Respiratory System”**
- How do the structures of the respiratory system change the air they receive? _____
 - Once in the lungs, oxygen in the air enters what? _____
 - Complete the flow chart.



17. **Lab Zone Try This Activity “What Do You Exhale”?** page 574
- What materials would you need for this activity?
 - _____
 - _____
 - _____
 - _____
 - What color does bromothymol blue turn in the presence of carbon dioxide? _____
 - What are you cautioned not to do in this experiment? _____
18. **Define the Highlighted words on pages 574**
- trachea _____

 - bronchi _____

 - lungs _____

 - alveoli _____

19. What is the **red heading on page 575**? _____
20. **A Green Key** page 575
- The green key explains the process of gas exchange. What two gases are involved in the exchange? _____ and _____
21. **Figure 15 “Gas Exchange”**
- During gas exchange how does oxygen move? _____
 - How does carbon dioxide move? _____
 - What kind of blood vessels surrounds the aveoli sacs? _____
22. **Figure 17 “Oxygen for Activities”**
- How does the large surface area of the aveoli in the lungs help trombone players?

23. **Math Skills “Surface Area”** page 576
- Calculate the surface area of a cube whose side measures 3cm
24. What is the **red heading on page 576**? _____
25. **Define the highlighted word on page 576.**
- Diaphragm _____

26. **Figure 18 “The Breathing Process”**
- How does the air pressure change inside the lungs when the diaphragm muscle moves down? _____
 - What does this cause air to do? _____
 - How does the air pressure change inside the lungs when the diaphragm muscle moves up? _____
 - What does this cause air to do? _____
27. **What is the blue heading on page 578?** _____
28. **Figure 19 “The vocal Cords”**
- How do humans make sounds _____

29. **Go Online Active Art page 577**
If you were to go online to try the “breathing Activity” what web code would you use? _____
30. **Define the highlighted words on page 578.**
- Larynx _____
 - Vocal cords _____

Now go back and read the chapter carefully. Then complete the workbook section 14.3 and see if you can answer the questions in the section 14.3 assessment.