**Name** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Each student should……Write in your OWN words… a summary of the Respiratory System problem that you pulled out of the hat at the beginning of class below.**

**The Respiratory System Webquest**

**Part 1: Yawning: Fill in the blanks that describe the three hypotheses as to why you may yawn:** <http://kidshealth.org/kid/talk/qa/yawn.html>

***Hypothesis #1:*** We yawn when we are are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, we just don't breathe as deeply as we usually do. As this theory goes, our bodies take in less \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because our breathing has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Therefore, yawning helps us bring more **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** into the blood and move more **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** out of the blood.

***Hypothesis #2***: Another theory is that yawning stretches the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and lung tissue. Stretching and yawning may be a way to flex muscles and joints, increase heart rate, and feel \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

***Hypothesis #3:*** The people believe that yawning is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to redistribute the oil-like substance called **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** that helps keep lungs lubricated inside and keeps them from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. So, if we didn't yawn, according to this theory, taking a deep breath would become

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ — and that would not be good!

**Part 2: Sneezing … Solve some everyday mysteries about SNEEZING!**

[**http://kidshealth.org/kid/talk/qa/sneeze.html**](http://kidshealth.org/kid/talk/qa/sneeze.html%20)

1. Why do you sneeze?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. *TRUE or FALSE*: Your heart stops when you sneeze.

3. *TRUE or FALSE*: Sneezes are an automatic reflex that can’t be stopped once sneezing starts.

4. Write out a summary of another fact you find interesting: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part 3: The Diaphragm: Based on the information you have learned about the respiratory system, make a hypothesis how each problem below would affect a human body.**

**Problem #1:** What would happen if your ***diaphragm*** were damaged (had a hole in it)?

How would this be detrimental to the rest of your body? EXPLAIN!

**Problem #2:** What would happen if the ***epiglottis*** didn’t function properly?

**Part 4: Comparing and contrasting lung problems**

**Using the website below and additional websites if needed, complete the following Venn diagram. Please note the number of characteristics that must be included in each section*.***

<http://www.buzzle.com/articles/bronchitis-vs-pneumonia.html>

***Bronchitis Only (3) Both (3) Pneumonia Only (3)***

**Part 5: SMOKING:** <http://www.kidshealth.org/kid/watch/house/smoking.html>

1. Every single day nearly \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ kids between the ages \_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_ start smoking.

2. \_\_\_\_\_\_\_\_\_\_\_ in \_\_\_\_\_\_\_\_\_\_\_\_\_ kids smoke in high school.

3. Why do kids start smoking? Identify two reasons:

a.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. What are some signs that someone is a SMOKER?

IDENTIFY FOUR

a. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ c. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ d. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Why do people become addicted to smoking? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. How many people die each day from a smoking related disease?\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part 5: Vaping: Research vaping. Compare and contrast Vaping and Smoking by completing a Venn Diagram. Put three bullet points for each**

***Vaping (3) Both (3) Smoking (3)***

**Part 6: Tobacco Use: Using the website below, observe the current estimates of youth tobacco use.**

<http://www.cdc.gov/tobacco/data_statistics/fact_sheets/youth_data/tobacco_use/index.htm>

*Using graph paper, graph the all the different percentages comparing males to females in different colors. Do not forget your X and Y axis labels.*

**Create an appropriate title that describes the data shown and title your graph.**

**Staple your graph to your webquest.**