

Respiratory System Unit Project:

Since the respiratory system is a short subsection of the cardiovascular unit. Instead of having a unit test, you are assigned to complete this “Respiratory System” Unit project.

What you need to do:

Choose an option:

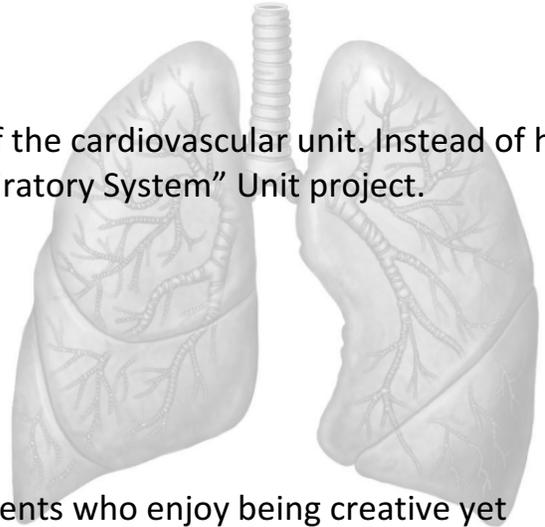
Create an “Interactive poster”

- The Interactive Poster is designed for students who enjoy being creative yet informative.
- The interactive poster is similar to a “science fair” board where the important information is displayed on a poster board but what makes it interactive is up to you in making it interesting.
- Examples of how it can be interactive includes but not limited to the following:
 - Opening and closing of flaps to show the structure
 - A simple “quiz” game to display the information
 - Have circular “spin” wheel to show differences between parts
 - A comic story board to show the process of breathing

Create a “Working Replica” of the respiratory system

- This option is made for students who are attention to detail and would like to create the working replica of the respiratory system.
- In addition to creating the replica, you also must include the other requirements listed above such as a lengthy write up in answering all the questions below.
- Google search “making lungs out of plastic bottles” is a good place to start.
- 2L bottle is a must. 500ml bottles are too small to be used.

Other – let me know



What you need to include:

Here are all the topics YOU MUST include:

- How and where are gases exchanged in the lungs via what mechanism. Be specific and involve examples
- Overall flow of the respiratory system from inhaling to exhaling.
- Parts of the respiratory system – present either through a diagram, picture, or various individual parts.
 - lungs, pleura, nasal cavity, epiglottis, bronchi and bronchioles, alveoli, pulmonary capillaries, diaphragm, pharynx, larynx, trachea, uvula, ribs, and intercostal muscles
- Functions of the parts of the respiratory system (above)
- The mechanism of breathing involving pressure and diaphragm
- 1 Respiratory disease/disorder due to lifestyle choices

How much time do you have to work on your project:

You will have 2-3 complete classes to complete this. You will most likely need some at home time to work on this as well. Please bring in all supplies to class in order to work on it in class.

How you are assessed:

Creativity: How creative was your project? Or was it a game that involved creative thinking? Was your interactive poster pretty rad? Or was it just straight forward?

/15 points

Accuracy: Did you include all of the topics above? Were they accurate and correct? Were they creativity incorporated into your project?

/15 points

In class assessment: Did you use your class time effectively? Bring in your supplies? Worked on your project in class? Etc...

/5 points

Total: /35 points