

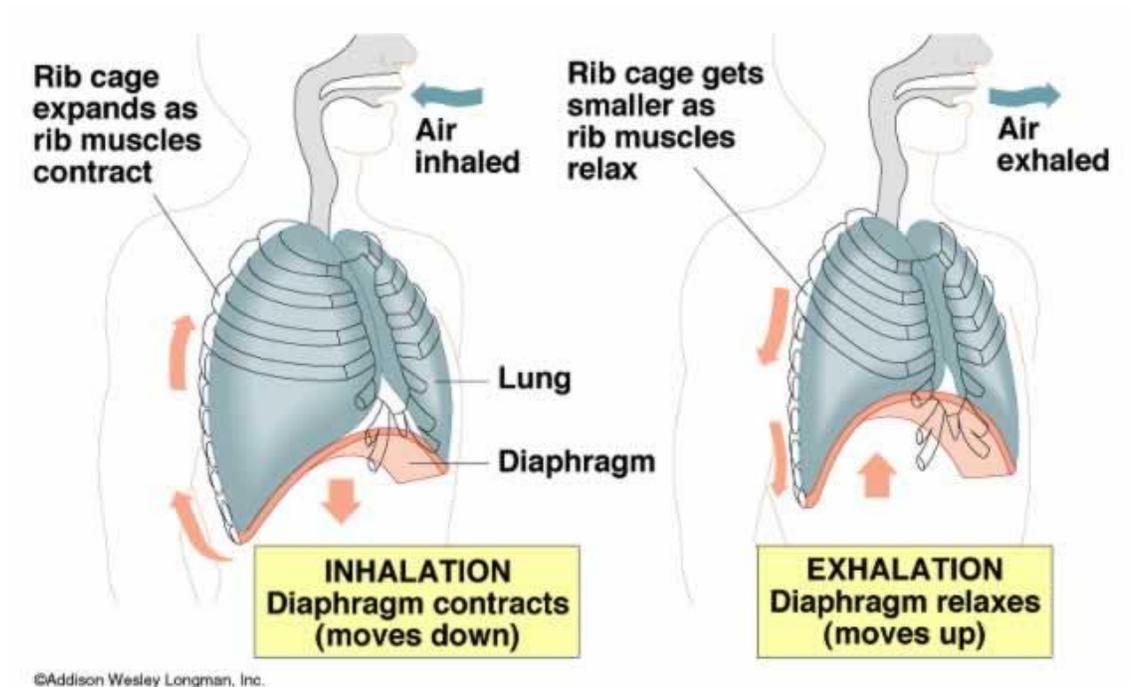
Name: _____

Science 1 2 3 4 5

Respiratory System Webquest

Go to: <http://kidshealth.org/kid/htbw/lungs.html>

- 1.) The lung on the _____ side of your body is slightly larger than the one on the _____. The lung on the _____ side is slightly _____ to make room for your _____.
- 2.) When you take air into your lungs, you _____ and your chest cavity gets _____. When you let the air out, you _____ and your chest gets _____.
- 3.) The trachea brings air from the pharynx to the lungs. At the base of the trachea it splits into the right and left _____. These passageways enter the lungs and continue to branch into smaller and smaller passageways. The very smallest ones are called _____ and are about the thickness of a human _____.
- 4.) At the end of these tiny passageways are tiny air sacs called _____. You have about _____ of them in your lungs.
- 5.) Inside these tiny air sacs is where the exchange of gases takes place. _____ moves from the bloodstream into the air sacs and _____ moves from the air sacs into the blood.



- 6.) The main muscle that helps you inhale is the _____ . When it contracts, it flattens out and creates _____ space inside your chest cavity. This makes the air pressure inside your chest _____ and air from the outside rushes in to fill the space.
- 7.) When you exhale the _____ relaxes and moves upward making the space inside your chest become _____. This causes the air pressure inside your chest to _____ and the air is pushed out of your body.

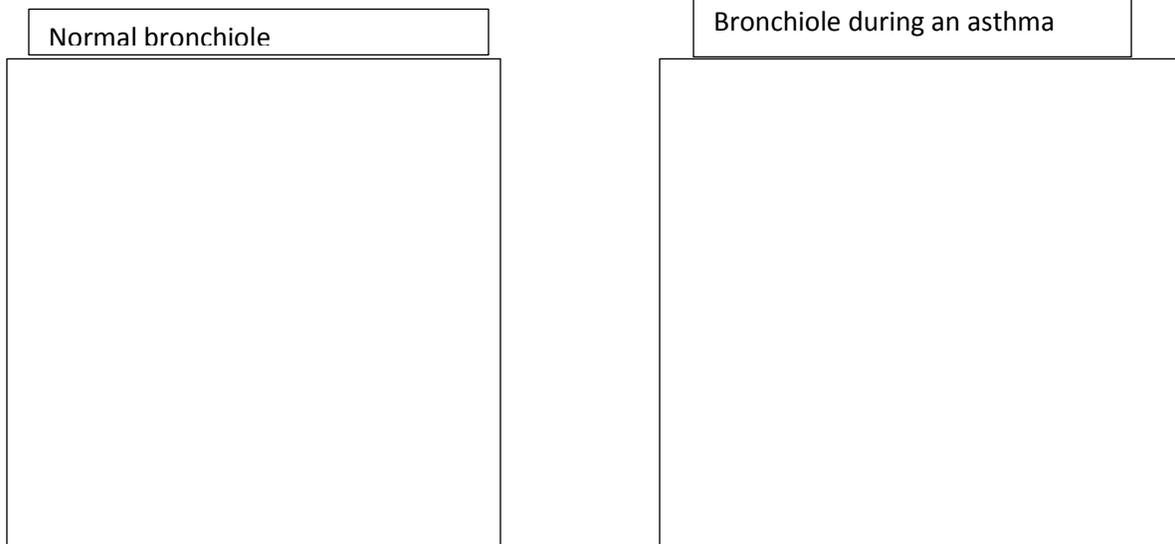
Some things that can go wrong with the Respiratory System.

Go to:

http://kidshealth.org/kid/asthma_basics/what/asthma.html

Watch the video about what happens during an asthma attack.

8.) Draw the indicated bronchiole and label the drawing.



9.) During an asthma attack the bronchioles and bronchi restrict the amount of air that can travel into the lungs. The three major changes that happen during a flare up are increased mucus production, _____, and _____.

Go to:

http://kidshealth.org/kid/health_problems/heart/cystic_fibrosis.html#

This website will tell you about a disease called Cystic Fibrosis.

- 10.) In healthy people the mucus in our Digestive and Respiratory Systems helps keep us healthy. In a child with Cystic Fibrosis the mucus is very _____ and tends to clog the airways leading to a lot of _____ in the lungs. Children may need to take antibiotics or stay in the hospital when this happens.
- 11.) Cystic Fibrosis is a disease you are born with. You inherit the _____ for this disease from your _____. You must have inherited the gene for Cystic Fibrosis from both _____ and dad in order to have the disease. If you only have one copy of the CF gene then you are a _____.
- 12.) The _____ System is also affected and children with CF often have trouble growing and gaining weight. The abnormal mucus effects the pancreas and interferes with the child's ability to _____ their food and get enough nutrients.

Thankfully, doctors are learning more about this disease and they are developing better medicines so that children with this disease have a better quality of life now than they did just a decade ago.

