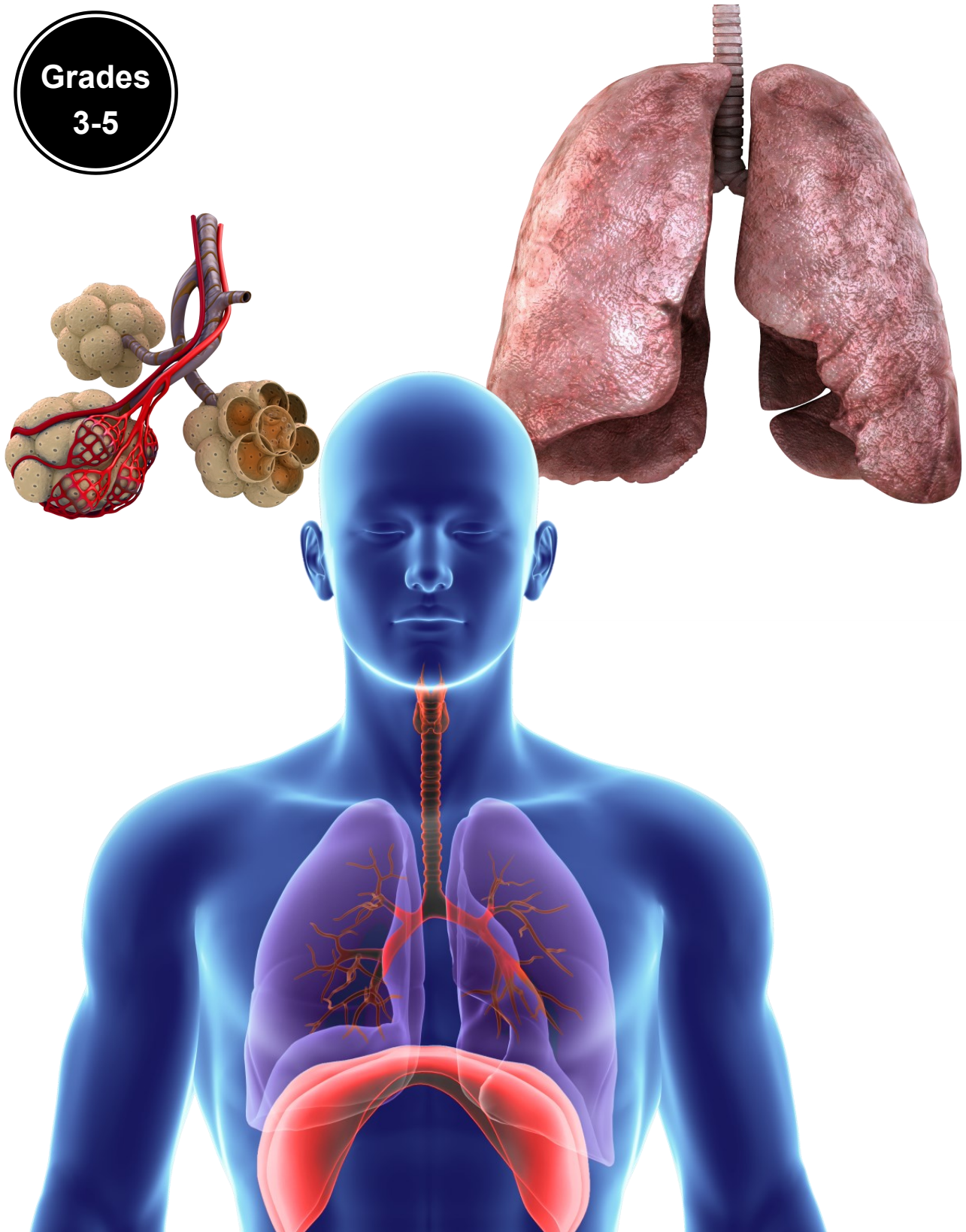




DENVER MUSEUM OF
NATURE & SCIENCE

Grades
3-5



Virtual Lung Journal

NAME

Respiratory System

Label the parts:

Nose/Mouth

Lungs

Trachea

Bronchioles

Bronchi

Diaphragm



What is one thing you want to remember about the dissection?

What do you still wonder about the respiratory system?

Nose



Cilia, Dirt and Mucus Experiment

Prediction:

Check a box below to predict what will happen when dirt is poured on the strainer (cilia).

- All of the dirt will pass through the strainer
- Some but not all of the dirt will pass through the strainer
- No dirt will pass through the strainer

Observation:

What happened?

Prediction:

What will happen when sand is poured onto the strainer (cilia) that has soap (or mucus) on it?

- All of the dirt will pass through the strainer
- Some but not all of the sand will pass through the strainer
- No sand will pass through the strainer

Observation:

How is this like what happens in the nose?

Trachea

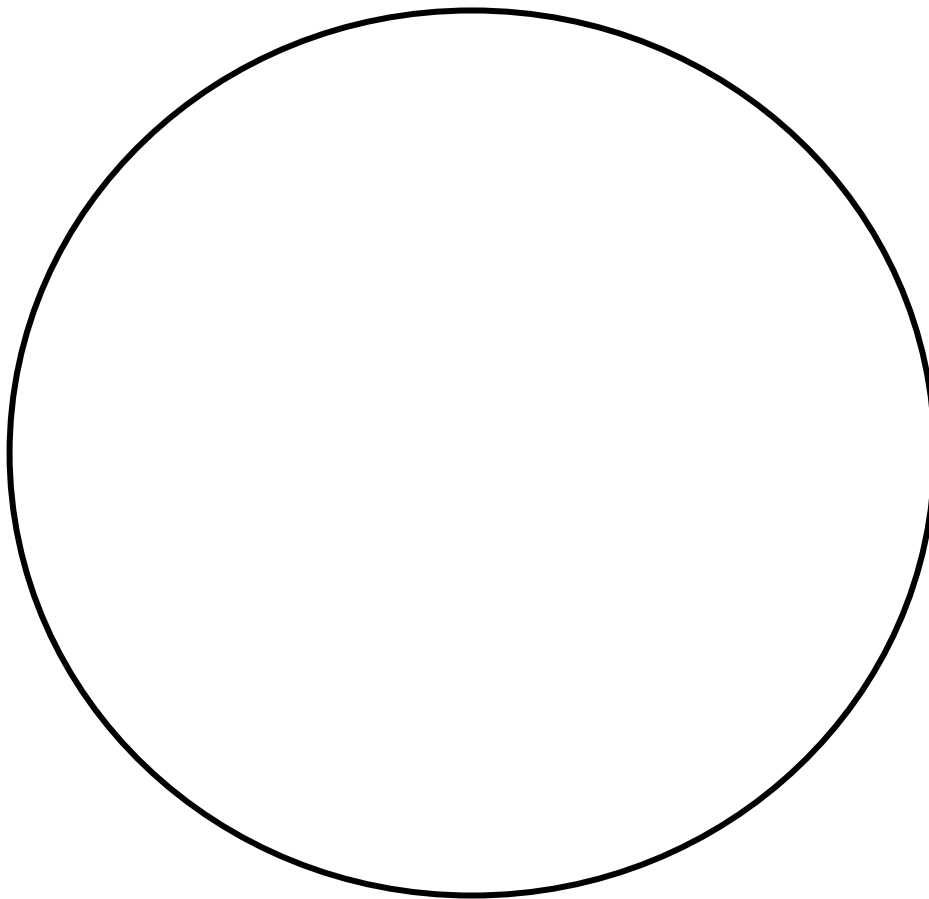


Which tube would make the best trachea? Circle one:

Plastic Tube

Vacuum Tube

What does your trachea look like?



How does cartilage help the trachea?

Bronchi & Bronchioles

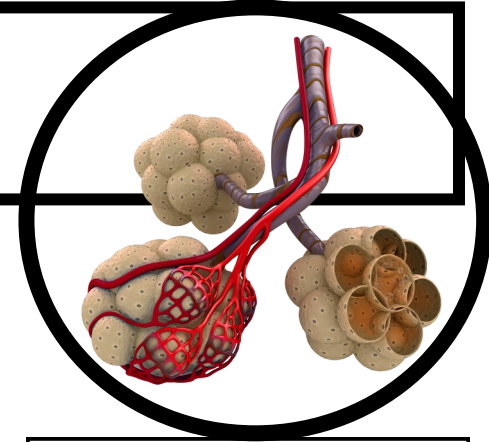
Time to be a scientific illustrator.



Draw what the bronchi and bronchioles look like in the lungs.

Where does air go at the end of the bronchiole tubes?

Alveoli

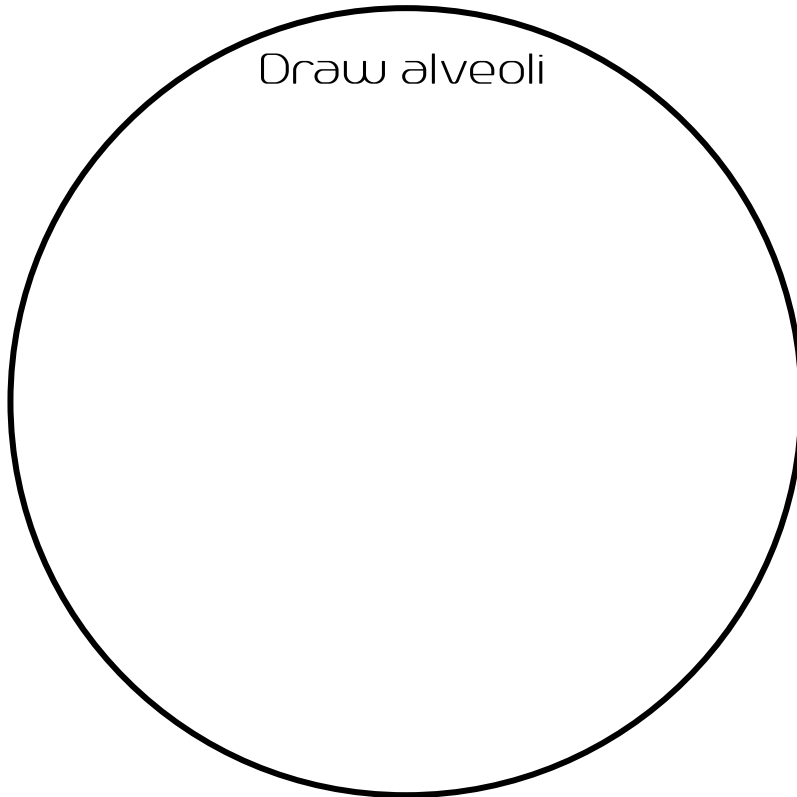


What does the balloon represent in the body?

What does the red net represent in the body?

Alveoli surrounded
by capillary blood

Draw alveoli



Why are the alveoli surrounded by blood vessels?

What is the job of the alveoli?

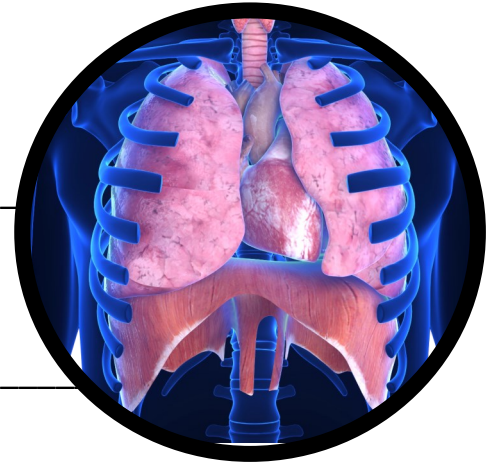
Heart/Lung Connection

Observe your breathing after you are active (after you run, get chased or dance).

How does your breathing change?

How does your heart beat change?

Why does your breathing and heart rate change when you are active? _____



Respiratory System

What is happening when you breathe?

What else do you wonder about the respiratory system?

What's one thing you want to remember about the respiratory system?
