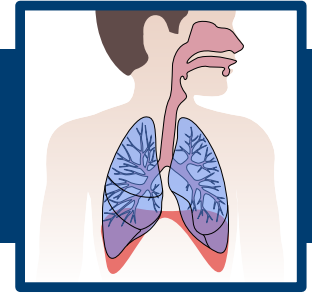


LESSON 2: RESPIRATORY EXPLORATORY

Activity 2C: *Tension - It's a Surface Issue*



PROCESSING OUT

1. Record your observations in the table below:

2 minutes after adding soap	Beaker A	
	Beaker B	
4 minutes after adding soap	Beaker A	
	Beaker B	

2. Water molecules attract one another due to hydrogen bonding. What issues, if any, do you think this would create inside the alveoli?
3. Specialized cells in the alveoli produce “surfactants” which are composed of phospholipids (~80%) and proteins (~20%).
 - a. Based on your observations, how would you describe the purpose of a surfactant?
 - b. What benefit does a surfactant have within the alveoli?
4. Mutations can decrease or eliminate an individual’s ability to produce surfactants.
 - a. How would this impact the respiratory system?
 - b. What impact would this have on other body systems?