Table 1 Summary of Lab Stations

LAB	*Section of Flash Demonstrated*	*Purpose*
A. Blue Print: There is O_2 Here! (Simulation of percentages of gasses in air we breathe)	Capillaries surrounding alveoli and capillaries surrounding body cells.	Demonstrates that air consists of a mixture of gasses and our body is able to select oxygen from the mix for our cells to use.
B. Blue Print: Dust Removal! (Collection of particulates in air we breathe)	Upper respiratory and inside at alveoli level.	Demonstrates particulates in the air that we breathe – our respiratory system is able to filter out many of these particulates and moisten the air we breathe.
C. Blue Print: Everything is Expanding and Contracting! (Bottle with balloon inside and simulated diaphragm)	Inspiration and expiration	Simulates the work of the diaphragm, which changes the volume of the chest cavity – this affects air pressure in and around the lungs.
D. Blue Print: Just enough pressure! (Syringe with marshmallow inside)	Inspiration and expiration	Demonstrates how changing the volume of a gas (air) affects pressure exerted by the gas (air)
E. Blue Print: Exchange It! (B-Blue color change in presence of CO_2)	Capillaries surrounding alveoli and capillaries surrounding body cells.	Color change demonstrates that we exhale carbon dioxide, providing evidence of gas exchange in the body.
F. Blue Print: Model of Diffusion! (Baggie, starch, iodine, and water)	Capillaries surrounding alveoli and capillaries surrounding body cells.	Demonstrates the movement of molecules through a semi-permeable membrane in presence of water.
G. Blue Print: Branching Out! (Cauliflower Lab)	Respiratory Tree	Demonstrates how the respiratory tree branches out to cover more area in lungs. This increases area for gas exchange to occur.
H. Blue Print: Break down the surface tension! (Surfactant)	Alveoli	Inside walls of alveoli are lined with water – tends to collapse the alveoli due to surface tension of water. Surfactant (simulated with soap) reduces surface tension so alveoli remain open.