

Activity "Administrivia":

Intended Grade Level: 7-HS Biology

Key Concepts:

FVC and *FEV₁* are lung volume measurements used to diagnosis lung disorders and diseases

The *FEV₁/FVC* ratio is very important in distinguishing between obstructive and restrictive lung diseases

The volume of exhaled air (measured outside the body) is not accurate and must be adjusted to account for body temperature and pressure

Lung Volume measurements require consistency to be considered accurate and useful – i.e., a one-time measurement is not sufficient for accurate analysis

Doctors use inductive and deductive reasoning to diagnose diseases

Both obstructive and restrictive lung diseases significantly affect patient lifestyle

Process Skills utilized in lesson:

Formulating definitions based on collected data and context

Making accurate and precise measurements involving the volume of a gas

Applying mathematical calculations

Using inductive and deductive reasoning to formulate a conclusion

Previous learning assumed:

Students should have completed the previous activity **You Really Are Full of Hot Air!** and be familiar with VC, FRC, TLC, and TV

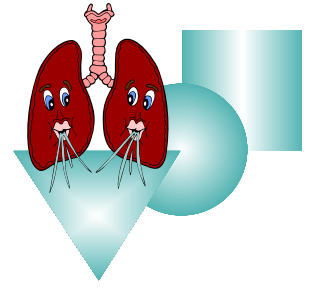
A knowledge of lung mechanics is helpful but not required

Students must have a concept of volume as a measurement expressed in mL and L

Students should be familiar with the mathematical calculations for percent

Relevant TEKS

Under Development



Activity "Administrivia"



LESSON 5
ACTIVITY 5C

Pulmo-Park