

Lesson 4: How Does Altitude Affect Pressure?

Activity 4.3

Purpose

The question this lab answers is “How does the altitude affect the air pressure?” Conduct an experiment with your partners. You will need an iPhone 6 or other smart phone with a barometer app.

Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

Word Wall Words

Altitude: _____

✚ Safety

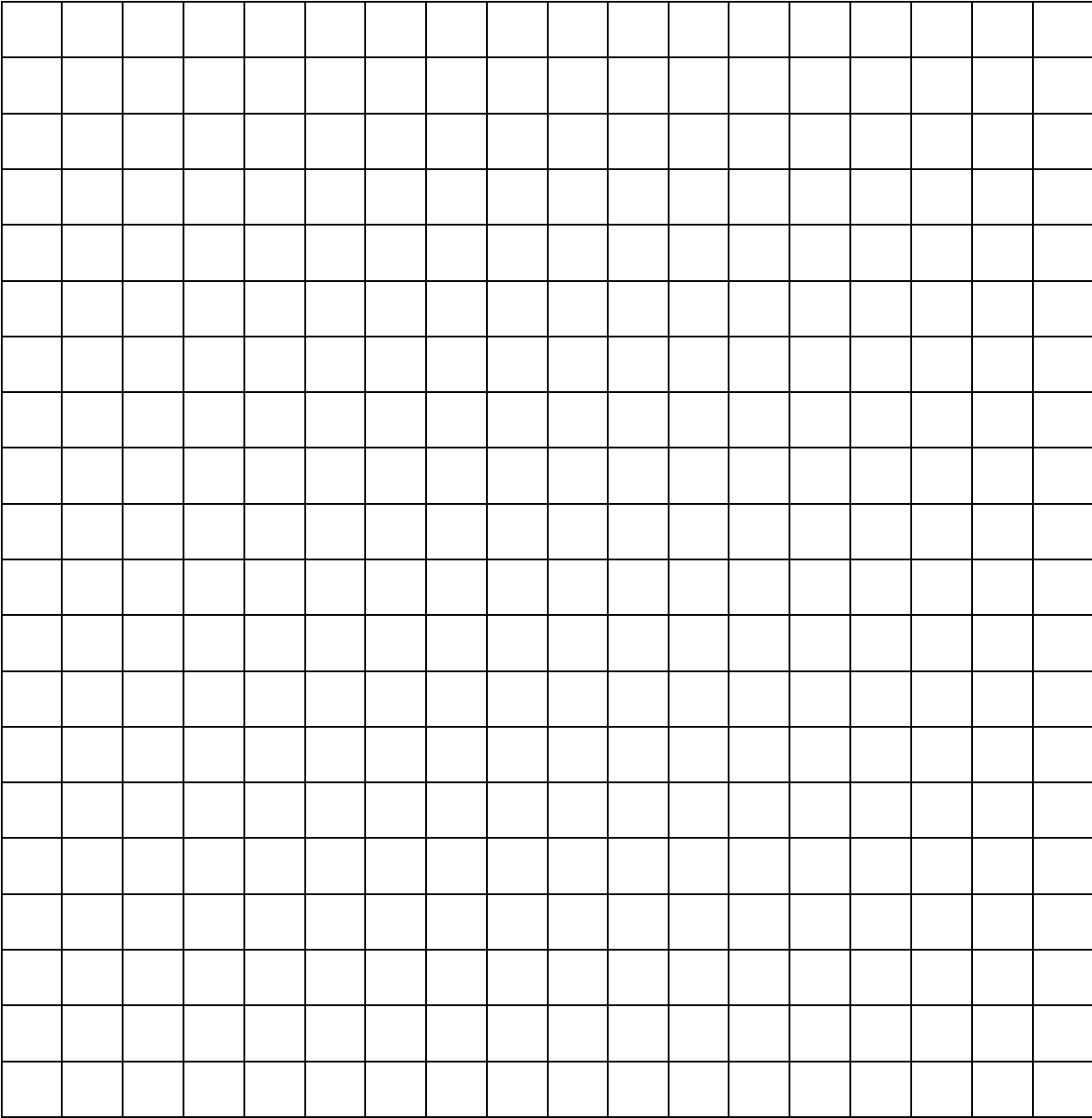
If you are using your own smart phone for this activity, please follow the appropriate use guidelines in the student handbook and only use the phone as directed for this lab.

Data Table

Use this data table to record the measurements from your experiment:

Location	Altitude Above Sea Level	East Stairwell Air Pressure (hPa)	West Stairwell Pressure (hPa)	Central Stairwell Pressure (hPa)	Average Pressure (hPa)
1 st Floor Ground	694 ft				
1 st Floor Reaching High	700 ft				
2 nd Floor Ground	708 ft				
2 nd Floor Reaching High	714 ft				
3 rd Floor Ground	722 ft				
3 rd Floor Reaching High	728 ft				

Use this grid to create a line graph of your data. Be sure to include a title and label the x and y axis:



What happens to the air pressure on an air mass as the air rises?
