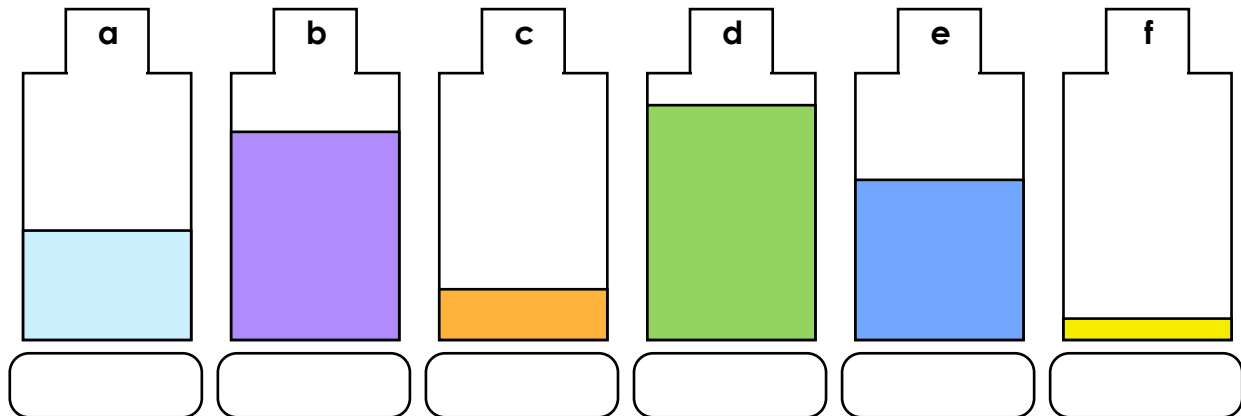


Name: _____ Date: _____

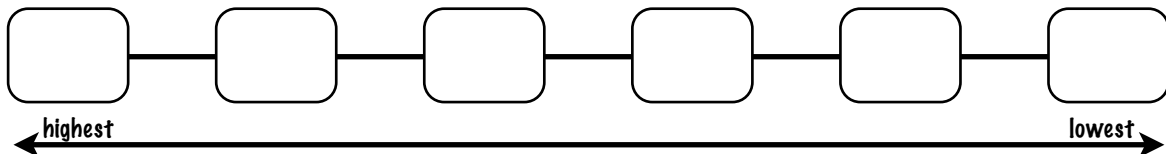


Blowing over the top of a bottle produces a sound because the air vibrates in the bottle. Different levels of water in the bottle produce different pitches of sound. Do fuller bottles produce higher or lower sounds? Investigate to find out!

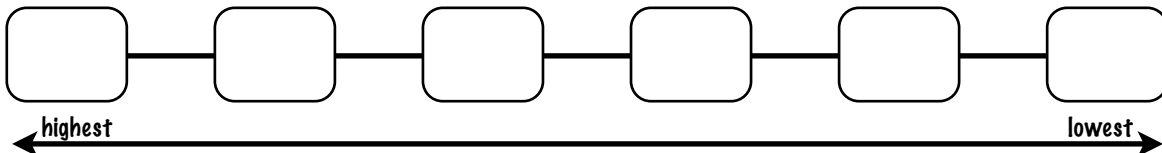
What sound would each of these bottles create?
Would it be a low or high pitch?



Predict which order the bottles will be in once you have ordered them from highest to lowest pitch:



Now test it for yourself and order the bottles from the highest to the lowest pitch. How close were your predictions?



Describe what have you found out from your investigation:

Name: _____ Date: _____



Blowing over the top of a bottle produces a sound because the air vibrates in the bottle. Design an experiment to see how different levels of water in the bottle affects the pitch of the sound that is created.

Describe how you will carry out your experiment:

What do you predict the results will show? Why?

Draw a diagram of each bottle and write down whether the sound was high, low or medium:

What have you found out from this experiment:

How accurate was your prediction?

Name: _____ Date: _____



Investigate how to make the pitch of a recorder change by covering up different holes. How can you make the pitch higher and lower?

Draw an annotated diagram to show what happens when the holes are uncovered.
What kind of sound is produced?

Draw an annotated diagram to show what happens when lots of the holes are covered. What kind of sound is produced?

Describe what you have found out from your investigation: