FLINN SCIENTIFIC

Name_____

Whistling Gases Worksheet

1. Was the note produced by the second balloon a higher or lower pitch than that of the first balloon?

2. List the order of the balloons from lowest pitch to highest.

3. The speed of a sound wave in a gas is equal to its wavelength times its frequency.

$$\upsilon = \lambda \times f$$

For any whistle, the wavelength of the sound produced is constant. Based on the identity of the gases and the notes produced, what can you conclude about the speed of sound in various gases?