



Doppler Effect

Name: _____

1. Look at the “Sound” simulation on the PhET.colorado.edu site. Investigate how the wave changes as you adjust the various parameters. Draw a picture of a sound wave below. Draw a wave that is a low sound and one that is a high sound. What is different between the two?

2. If a tuning fork is sounding and then swung over a person’s head, how do you think it will sound?

Demonstration

3. After listening to the demonstrations, describe what you heard.

4. *Prediction:* Draw a picture or pictures that show how wave fronts (like shown in the Sound sim) might look while a speaker is moving towards you. Draw how it would look if the speaker were moving away from you.

Class Discussion and Explanation

5. Describe in your own words as you might to other students, how the Doppler effect works.