

Sound and Wave Basics

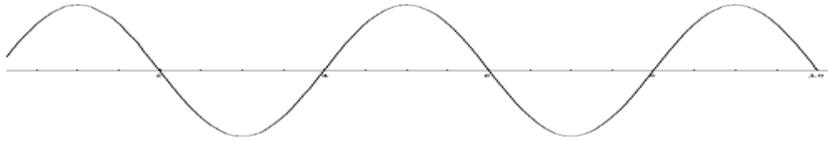
Name: _____

Use the PhET sim *Wave on a String* for questions 1-6. <http://PhET.colorado.edu>

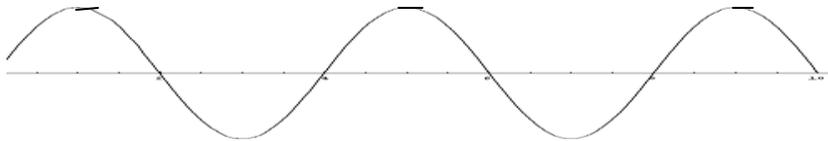
Play around and get familiar with the sim first. Be sure to try out all the buttons.

1. Are you familiar with longitudinal and transverse waves? Which type of wave is being shown by this sim?

2. Use arrows, or draw on the wave, to show what will happen when the **amplitude** is increased:



3. Use arrows, or draw on the wave, to show what will happen when the **frequency** is increased:



4. What direction does each individual part of the string move when a wave travels along it?

5. What direction does the actual wave move (hint, try pulse)?

