

Go the following website

<http://www.hazelwood.k12.mo.us/~grichert/sciweb/waves.htm>

Click on [Wave Amplitude, Wavelength, Phase Shift](#)

1. What changes in the wave when you increase the amplitude slider?
2. What happens to the wave when you increase the wavelength slider?

Click on the back button

Then Click on [Wave Frequency](#)

3. What happens to the wave when you increase the frequency slider?

Click on the back button

Then click on [Transverse Wave Simulator](#)

4. Which way do the blue balls move?
5. Which way does the wave move?
6. What happens when increase the frequency?
7. What happens when you decrease in the amplitude?

Click on the back button

Then click on [Longitudinal Wave Simulator](#)

8. Which way do the blue balls move?
9. Which way does the wave move?
10. What happens when increase the frequency?
11. What happens when you increase in the amplitude?
12. Draw a transverse wave in the space below

13. Draw a transverse wave with twice the amplitude in the space below

14. Draw a transverse wave with twice the frequency in the space below

15. How are transverse and longitudinal waves different from each other?