WAVE PROPERTIES

Activity 1: Waves on a rope

- 1. Tie one end of a 3 to 5 meter rope or coiled telephone cord to a stationary object such as a door knob.
- 2. Quickly move the other end of the rope up and down. Observe the resulting wave. What kind of wave did you produce?_____
- **3.** Increase the speed of the up-and-down movement. What happens to the frequency? To the wavelength?
- 4. Increase the height to which you move your arm. What happens to the wave's amplitude?
- 5. In the space below, draw diagrams of your observations in steps 2, 3, and 4.





