Name_____

An Introduction to Waves

1. What did you observe when the teacher pushed and pulled the group from side to side? What type of wave is this?

2. What did you observe when the teacher pushed and pulled the group forward and backward? What type of wave is this?

3. When you went back and forth faster, what did you observe about the rope with regard to the wave length and frequency?

4. Draw a picture of this wave below. Label the trough, the crest and amplitude. (This is called a transverse wave.)

5. Have one student hold each end of the Slinky. Pull one end. Draw a picture of what happens to the Slinky when one end is pulled. (This is called a compression or a longitudinal wave.) Label the points of compression and rarefaction.