

Anatomy of a Wave – partner activity (introduce periodic motion of waves (2-D), crest and trough, wavelength – length of one wave)

Materials:

Laminated copy of a simple transverse wave picture Lab notebooks-new page- with page dated pencil

Part I:

1. Have students break into groups of 2 or 3.
 - a. One is the “reporter” and will get the laminated sheet (does not look at until told to by teacher and doesn’t at anytime show others)
 - b. Partners are the “artists” –they will try to draw what the reporter describes
2. Tell students that the sheets the “reporter” will get are top secret – no peeking!
 - a. Rules while describing the picture to artists:
 - i. Reporters cannot comment on artists work! They can answer questions, but cannot look at a picture and clarify by “showing” them.
3. Hand out laminated copies of a basic wave shape (see next sheet)
4. Allow reporters to look at their sheet – tell other students to close their eyes because they will look at other students’ pictures. Remind students this is FUN!!! NO CHEATING!!!
5. Give a quick instruction about how the “reporter” will be telling them about the picture they will draw.
6. Walk around listening as the students instruct the “artists” on how to draw the picture of the wave.
7. I give them 5 minutes but if they start trying to look around and lose focus...I wrap it up.

Part II:

1. I collect the laminated copies and ask the students to turn their picture over. (turn the page in their lab notebooks) – the reporters find a fresh page, too.
2. I go through the activity again giving instructions for all to draw.
3. After we all finish- we look at both drawings and I put the picture on the document camera/computer/overhead
4. We make touch ups and talk about difficulties with listening and creating images.

The goal is to draw and label a basic wave – in a fun, interactive way

****Be sure to put describe a wavelength and have them add it to the drawing. (I go from crest to crest to give them the easiest view)

