

Worksheet 1

TEACHER'S NOTES

1. Waves have energy , whether it's sea waves, the light waves of the laser beam cutting through steel, waves in the earth crust causing earthquakes or the waves which made the Tacoma bridge shake itself apart in 1941.
2. The water appears to be moving from right to left.
3. The waves move along.
4. So what is moving and in what direction?
5. Focus on just the orange spot and you'll see that it moves up and down.
6. These waves are both transverse but they look different
7. It's called the wavelength and is measured in meters.
8. How are frequency and wavelength related?
9. But this time the motion is backwards and forwards.
10. Light waves and water waves are both transverse.

Adapted from: <https://www.youtube.com/watch?v=w2s2fZr8sqQ>