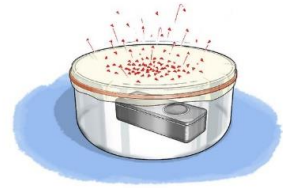


Sound Experiments

Experiment 2: See the Sound - Make a Model Eardrum



Materials:

- Empty clear mixing bowl
- Plastic wrap
- Large rubber band
- Hundreds of thousands, salt crystals, rice or small seeds. Raw Sugar works great, or make sugar crystals in another science experiment (Google it).

Experiment:

1. Wrap a sheet of plastic wrap over the mixing bowl so that it's taut, and secure with the large rubber band. Be sure that the plastic wrap is tight and does not sag.
2. Place a few of the hundreds of thousands on the top of the plastic wrap, placing them in the middle of the wrap.
3. Get close to the hundreds of thousands and say something loudly! What happens to the hundreds of thousands? Do they move?
4. Experiment with louder and softer words or sentences to watch the hundreds of thousands react to the sound vibrations!
5. Try placing something inside the bowl, like a small wireless speaker. Or how about a phone then calling it!
6. Try different sounds besides ordinary speech and see how the hundreds of thousands come to life!

What is happening?

You might think it's your breath making the hundreds of thousands jump and move, but it's actually the sound vibrations. The plastic wrap reacts to sound waves in a way similar to the human eardrum.

