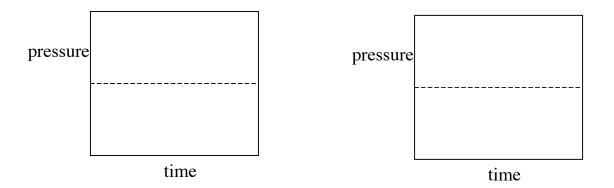
## **All About Sound**

http://www.physics.lsa.umich.edu/chupp/ElementaryScience

Sound is what we hear: VIBRATIONS shake the AIR AIR shakes the EARDRUM NERVES sense the SHAKE BRAIN feels the SOUND Different sounds: LOUD/SOFT HIGH/LOW pitch SHORT/LONG VIBRATIONS Make WAVES Changes with TIME FAST – Need Special Measuring Tools OSCILLOSCOPE makes a PRESSURE vs TIME GRAPH What did you see?



## HIGH PITCH – FAST VIBRATIONS – HIGH FREQUENCY LOW PITCH – SLOW VIBRATION – LOW FREQUENCY

SHORT THINGS – HIGH PITCH – SHORT WAVELENTH LONG THINGS – LOW PITCH – LONG WAVELENGTH

SOUND is FAST: 740 miles per hour in air

SPEED = FREQUENCY X WAVELENGTH