

<p>75 min</p>	<p>Learning outcomes: 1. Determining how the waveforms produced by a tuning fork and by musical instruments differ.</p> <p><u>Based on investigation 10.2.1 in the textbook on page 476</u></p>	<p>Materials</p> <ul style="list-style-type: none"> • microphone • amplifier • computer • various tuning forks • stringed instrument • percussion instrument • wind instrument
<p>Minds On... 10 min</p>	<p>1. Teacher demonstrates how sound analyzer and computer are used by playing different sounds on all the instruments including a tuning fork.</p>	
<p>Action! 50 min</p>	<p>1. Lab handout (copy of 476) is given to students working in groups of four.</p> <p>2. Sketch the resulting waveform observed on the computer while</p> <ul style="list-style-type: none"> • Tapping (lightly and hard) different tuning forks • Plucking a stringed instrument • Beating on a percussion instrument • Blowing into a wind instrument 	
<p>Consolidate Debrief 15 min</p>	<p>1. Groups share their observations to the class.</p>	