

## Barometer SoundTrack

The sound track is keyed to the scene in the video

Scene	Voice Track
1.	This video is part of a web-based package on using a mercury barometer
2.	<p>Here is a Mercury Barometer. It is also called a Fortin Barometer.</p> <p>It is used to measure atmospheric pressure.</p> <p>A glass tube that is closed at the top extends up the barometer. It is filled with mercury except for a vacuum which is enclosed in the top part.</p> <p>A metal scale is mounted on the frame of the barometer. This will be used to measure the height of the mercury column in the tube.</p> <p>At the bottom is a reservoir of mercury open to the atmosphere. The glass tube dips into this reservoir so the mercury in the tube is connected to the mercury in the reservoir.</p>
3.	The height of the mercury in the reservoir may be adjusted with the Zero Adjusting Knob at the bottom.
4	As shown in the animation, when the knob is rotated the height of the mercury in the reservoir changes. There is a triangular Zeroing Peg, and the height of the top of mercury reservoir should be adjusted so that it just touches the tip of the peg.
5.	There is a movable scale that surrounds the tube of mercury. The height of the mercury in the tube will be measured with the movable scale.
6.	The movable scale is moved up and down by rotating the knob on the side of the apparatus.
7	<p>We adjust the movable scale so that its bottom is just at the height of the mercury column in the tube.</p> <p>The movable scale has a vernier on it.</p> <p>The height we read on the metal scale with the vernier is atmospheric pressure. Since the scale measures in millimeters, the pressure will be in millimeters of mercury.</p>
8.	This completes the video introduction to the barometer apparatus. There is still important information to learn on using this equipment from the associated web page.