

Phyphox Lab Ideas for student projects

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1. Speed of Sound in air: Watch this video [Phyphox Speed of sound](#) . Duplicate the experiment, make your own video and compare the value you get with the accepted (calculated) speed of sound in air at the temperature at which the experiment was done.
2. Speed of elevator: NOTE: Not all phones have a barometer! Watch this video [Phyphox elevator](#) Duplicate the experiment, or measure the height of a building using the barometer function of your phone. In your writeup include a chart or formula for determining the barometric pressure at reasonable altitudes.
3. Measure the acceleration of gravity. Watch this video [Phyphox](#) . Duplicate the experiment, write it up, and make your own video of the experiment.
4. Attempt to use the Doppler effect to measure your speed riding a bicycle, or on a skateboard. Write up the experiment and include a video or pictures.
5. You may propose an idea to your instructor.