

Students will use different sensors to record their own physiological data. Measuring the activity of the upper respiratory tract, the lungs, the heart, the nervous system, and the musculo-skeletal system, various human organ systems will be examined. Data will be collected, analyzed and submitted to a collective database.

Concepts: observing pulse response to various stimuli; recognizing EKG wave forms; associating muscle activity with joint movement; comparing lung capacities and volumes.

Skills: correct use of a wireless heart rate monitor, EKG/EMG, grip strength sensor, and spirometer; use of a computer interface to collect data.