**SPARKlab Online Library (free APPs for data sensors)**

<https://www.pasco.com/downloads/sparkvue/sparklabs/index.cfm>

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**SPARKlab Online Library**

Over 80 free interactive lab activities.

**About these downloads:**

Each lab is a .spk file that is opened by SPARKvue software. You can download each lab individually or download all of the labs as two zip files.

The first zip file includes the original offering of 63 SPARKlabs.  The second zip file includes all of the labs that have been added since.

Download all of the original SPARKlabs in one zipped file (255 MB)

* [SPARKlab (Original) English](http://pasco.com/file_downloads/sparklabs/SPARKvue-English-Labs.zip)

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* [Recently Added Labs' Teacher Notes](http://pasco.com/file_downloads/sparklabs/New-SPARKlab-Teacher-Notes.zip)

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**Newest Biology SPARKlabs**

* [Diffusion](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Diffusion-Sv.spk)
* [Fermentation in Yeast](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Fermentation-in-Yeast-Sv.spk)
* [Heart Rate](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Heart-Rate-Sv.spk)

**Original  Biology SPARKlabs**

* [Acid Rain](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Acid-Rain-Sv.spk)
* [Enzyme Action](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Enzyme-Action-Sv.spk)
* [Exploring Microclimates](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Exploring-Microclimates-Sv.spk)
* [Membrane Permeability](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Membrane-Permeability--Sv.spk)
* [Organisms and pH](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Organisms-and-pH-Sv.spk)
* [Osmosis](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Osmosis-Sv.spk)
* [Plant Respiration and Photosynthesis](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Plant-Respiration-and-Photosynthesis-Sv.spk)
* [Respiration of Germinating Seeds](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Respiration-of-Germinating-Seeds-Sv.spk)
* [Role of Buffers](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Role-of-Buffers--Sv.spk)
* [Transpiration](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Transpiration-Sv.spk)

**Newest Chemistry SPARKlabs**

* [pH of Chemicals Hair Care](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/pH-of-Chemicals-Hair-Care-Sv.spk)
* [Reaction Rates](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Reaction-Rates-Glucose-Concentration-Sv.spk)
* [Periodic Trends](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Periodic-trends-SV.spk)

**Original Chemistry Sparklabs**

* [Absolute Zero (Gay-Lussac's Law)](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Absolute-Zero-Gay-Lussac%27s-Law-Sv.spk)
* [An Acid Base Titration](http://pasco.com/file_downloads/sparklabs/spark_vue_english/An-Acid--Base-Titration-Sv.spk)
* [Boyle's Law](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Boyle%27s-Law-Sv.spk)
* [Concentration of a Solution (Beer's Law)](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Concentration-of-a-Solution-Beer%27s-Law-Sv.spk)
* [Diprotic Titration- Multi-Step Chemical Reactions](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Diprotic-Titration--Multi-Step-Chemical-Reactions-Sv.spk)
* [Electrochemical Batteries](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Electrochemical-Batteries-Sv.spk)
* [Evidence of a Chemical Reaction](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Evidence-of-a-Chemical-Reaction-Sv.spk)
* [Heats of Reaction and Solution](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Heats-of-Reaction-and-Solution-Sv.spk)
* [Intermolecular Forces](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Intermolecular-Forces-Sv.spk)
* [Percent Oxygen in Air](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Percent-Oxygen-in-Air-Sv.spk)

**Newest Environmental & Earth Science SPARKlabs**

* [Biofuels from Fermentation](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Biofuels-from-Fermentation-Sv.spk)
* [Earth's Magnetic Field](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Earth%27s-Magnetic-Field-Sv.spk)
* [Greenhouse Gases](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Greenhouse-Gases-Sv.spk)
* [Plant Metabolism and Carbon Cycle](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Plant-Metabolism-and-the-Carbon-Cycle-Sv.spk)
* [Seafloor Dynamics](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Seafloor-Dynamics-Sv.spk)
* [Toxicology using Yeast](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Toxicology-Using-Yeast-Sv.spk)
* [Water Quality](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Water-Quality-Sv.spk)

**Original Environmental & Earth Science  SPARKlabs**

* [Air Pollution and Acid Rain](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Air-Pollution-and-Acid-Rain-Sv.spk)
* [Hydrogen Bonding of Water](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Hydrogen-Bonding-of-Water-Sv.spk)
* [Insolation and the Seasons](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Insolation-and-the-Seasons-Sv.spk)
* [Monitoring the Quality of Water](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Monitoring-the-Quality-of-Water-Sv.spk)
* [Radiation Energy Transfer](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Radiation-Energy-Transfer-Sv.spk)
* [Soil pH](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Soil-pH-Sv.spk)
* [Soil Salinity](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Soil-Salinity-Sv.spk)
* [Specific Heat - Land Versus Water](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Specific-Heat-Land-Versus-Water-Sv.spk)
* [Water Treatment](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Water-Treatment-Sv.spk)

**Newest Physics SPARKlabs**

* [Position Match](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Position-Sv.spk)
* [Projectile Motion](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Projectile-Motion-Sv.spk)
* [Radiation](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Radiation-Sv.spk)

**Original Physics SPARKlabs**

* [Acceleration](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Acceleration-Sv.spk)
* [Archimedes' Principle](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Archimedes%27-Principle-Sv.spk)
* [Conservation of Energy](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Conservation-of-Energy-Sv.spk)
* [Electromagnetic Induction](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Electromagnetic-Induction-Sv.spk)
* [Magnetism](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Magnetism-Sv.spk)
* [Newton's Second Law](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Newton%27s-Second-Law-Sv.spk)
* [Ohm's Law](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Ohm%27s-Law-Sv.spk)
* [Speed and Velocity](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Speed-and-Velocity-Sv.spk)
* [Voltage](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Voltage-Sv.spk)

**Newest Middle School SPARKlabs**

* [Amazing Body Parts - Eyes](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Amazing-Body-Parts-Eyes-Sv.spk)
* [Exploring Motion Graphs](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Exploring-Motion-Graphs-Sv.spk)
* [Monitoring the Weather](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Monitoring-the-Weather-Sv.spk)
* [Sharing the Warmth](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Sharing-the-Warmth-Sv.spk)
* [Yeast Growth](http://pasco.com/file_downloads/sparklabs/new_spark_vue_english/Yeast-Growth-Sv.spk)

**Original Middle School SPARKlabs**

* [Acid Rain and Plant Growth](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Acid-Rain-and-Plant-Growth-Sv.spk)
* [Are You Speeding](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Are-You-Speeding-Sv.spk)
* [Bright Lights](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Bright-Lights-Sv.spk)
* [Exploring Environmental Temperatures](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Exploring-Environmental-Temperatures-Sv.spk)
* [Mapping the Ocean Floor](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Mapping-the-Ocean-Floor-Sv.spk)
* [Operation Deep Freeze](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Operation-Deep-Freeze-Sv.spk)
* [Recovery Heart Rate\_Ear Clips](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Recovery-Heart-Rate_Ear-Clips-Sv.spk)
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* [Soil Characteristics](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Soil-Characteristics-Sv.spk)
* [Thermoregulation of the Body](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Thermoregulation-of-the-Body-Sv.spk)
* [Varying Lights](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Varying-Lights-Sv.spk)
* [Varying Reaction Rates](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Varying-Reaction-Rates-Sv.spk)
* [Why We Brush Our Teeth](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Why-We-Brush-Our-Teeth-Sv.spk)

**Original Elementary School SPARKlabs**

* [Endothermic and Exothermic Changes](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Endothermic-and-Exothermic-Changes-Sv.spk)
* [Feeling and Measuring Temperature](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Feeling-and-Measuring-Temperature-Sv.spk)
* [Heating Land and Water](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Heating-Land-and-Water-Sv.spk)
* [Keeping Warm](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Keeping-Warm-Sv.spk)
* [Lighting a Bulb](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Lighting-a-Bulb-Sv.spk)
* [Melting and Boiling](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Melting-and-Boiling-Sv.spk)
* [Mixing Warm and Cool Water](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Mixing-Warm-and-Cool-Water-Sv.spk)
* [Temperatures in the Environment](http://pasco.com/file_downloads/sparklabs/spark_vue_english/Temperatures-in-the-Environment-Sv.spk)
* [What is a Conductor](http://pasco.com/file_downloads/sparklabs/spark_vue_english/What-is-a-Conductor-Sv.spk)
* [What is an Electric Circuit](http://pasco.com/file_downloads/sparklabs/spark_vue_english/What-is-an-Electric-Circuit-Sv.spk)

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