

# FS-428 Versa Interface Experiments & Equipment Packages

Chemistry Content / Sample Experiments	Versa + Sensors	Package 428-B Versa Basic	Package 428-C Versa Comprehensive	Package 428-P Versa pH
	Versa + Software and Experiment Resources	●	●	●
<p>Energy, Temperature, and Molecular Motion *</p> <p>Energy and Physical Change Heat of Fusion Heat of Vaporization Fractional Distillation of Shaving Lotion Energy and Chemical Change Heat of Reaction</p>	Fast response Thermistor temperature sensor	●	●	●
<p>Energy, Gas Laws, and Molecular Motion *</p> <p>Boyle's Law Absolute Zero Avogadro's Number</p>	Pressure Syringe, Hose & Luer fitting, Plastic gas sample bottle	●	●	●
<p>Basic Electrochemistry *</p> <p>Oxidation and Reduction Citrus Batteries The Electrochemical Series</p>	Voltage Lead	●	●	●
<p>Energy of Light + Atoms First *</p> <p>Energy and Color Planck's Constant</p>	LED's for visual band-gap energy measurement built into Versa	●	●	●
<p>Spectrophotometry + Atoms First *</p> <p>Spectral profiles Beer's Law Spectrophotometric Kinetics Turbidity Fluorescence</p>	"Visual" Spectrophotometry Module + Light Sensor + vial kit		●	●
<p>Acid-Base Chemistry *</p> <p>Chemical Indicators and pH Titrations and equivalence points</p>	Chemical Indicator		●	●
<p>Titrations **</p> <p>Titration curves, derivative plots, and Equivalence Points Heat of Reaction Buffers</p>	pH Electrode			●
<p>*Safe for "At-Home" Labs ** Requires in-lab supervision</p>	Package Price Includes Versa interface, software license, and experiment resource access			

