

The Original



Teacher's guide and other print materials make lesson plans easy.

Everything students need to know about environmental water parameters all in one backpack!

Water Quality Education Test Kit

(HI 3817BP)

Hanna Instruments is now offering a new series of test kits for use by educators and environmental science students. These portable kits are specifically designed for teachers to get the most out of their classroom time with well-constructed lessons and activities. The backpack is designed with all the necessary components in one place, reducing the chance of misplacing an item. The durable backpack is ideal to take out in the field for on-site measurements. The components are tied together by an extensive teachers manual that includes information about each parameter, classroom activities

which are designed to introduce students to each parameter, and detailed field-testing procedures.

Using the supplied course of study in correlation with Hanna's parameter test kits and pocket testers, the Water Quality Backpack Lab™ for Education provides teachers with a valuable tool in helping their students assess the water quality of streams, rivers, and lakes.

The Hanna Instruments Backpack Lab™ is an example of our innovation and desire to respond to the needs of our customers. Hanna looks forward to supporting teachers with our continuing Backpack Lab™ series.

Backpack Lab™
By HANNA

Backpack Lab™ Water Quality Education Test Kit Includes:

- **110 tests** each for Acidity and Alkalinity, 100 tests for Carbon Dioxide, Dissolved Oxygen, Hardness, Nitrate and Phosphate
- **Hanna's pHep®4 waterproof pH/temperature tester**
- **Hanna's DiST®5 waterproof conductivity/Total Dissolved Solids (TDS) tester**
- **Secchi disk** for turbidity
- **Backpack-style carrying case** which holds all components of the kit
- **72-page teachers manual** with a curriculum that meets National Science Teachers Standards
- **Overhead transparencies** with summaries of each parameter
- **Laminated, laboratory instruction cards** with step-by-step field-test procedures
- **Reproducible lab activity worksheets** with instructions, goals, hypothesis, and testing procedure results/observations
- **A glossary of key terms** for classroom display

Highlights Include:

- Well-constructed lessons and activities
- All components fit in backpack for extreme portability
- Ideal for on-site measurements
- Extensive 72-page teachers manual
- Hanna's pHep®4 and Dist®5 feature a floating, waterproof casing

NEW!

Explore three macronutrients and three parameters using test kits and meters!



Teacher's guide and other print materials make lesson plans easy.

Soil Quality Education Test Kit

(HI 3896BP)

Hanna Instruments introduces the second product in a series of kits specifically assembled for use by educators and environmental science students. Using the popular Hanna Agriculture Combination Test Kit as its foundation, the Soil Quality Education Test Kit is designed to provide a complete unit for teachers to introduce students to important chemical tests to evaluate soil quality and fertility and relate these measurements to the principles of plant metabolism. The components are tied together by an extensive Teacher's Guide that includes in-depth background information about each parameter, classroom activities designed to

introduce students to each parameter, and detailed field-testing procedures.

By combining Hanna's expertise in developing and manufacturing testing products for industrial applications with consideration for the needs of educators at the Junior High and High School level, this kit addresses important issues related to soil quality and modern agricultural practices. Real-world examples help students to understand the relevance of macronutrients and other parameters in everyday life. The kit is an in-depth introduction to major soil quality topics, all presented in an easy-to-use format that makes lessons understandable and memorable.



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Authorized Distributor www.clarksonlab.com



Backpack Lab™ Soil Quality Education Test Kit Includes:

- **Agriculture Combination Test Kit for testing Nitrogen, Phosphorus, Potassium (NPK) and pH** with enough materials for 50 tests of each parameter
- **Hanna's pHep®4 waterproof pH/temperature tester**
- **Hanna's DiST®5 waterproof conductivity/Total Dissolved Solids (TDS) tester**
- **Hanna's HI 145 digital thermometer**
- **Backpack-style carrying case** which holds all components of the kit
- **48-page teachers manual** with a curriculum that meets National Science Teachers Standards
- **Overhead transparencies** with summaries of each parameter
- **Laminated, laboratory instruction cards** with step-by-step field-test procedures
- **Reproducible lab activity worksheets** with instructions, goals, hypothesis, and testing procedure results/observations
- **A glossary of key terms** for classroom display

Highlights Include:

- Well-constructed lessons and activities
- All components fit in backpack for extreme portability
- Ideal for on-site measurements
- Extensive 48-page teachers manual
- Hanna's pHep®4 and Dist®5 feature a floating, waterproof casing