2015 Education Products

High Performance Measurement Equipment









Triple Beam Scout® Pro

Water Quality Test Meters



Starter Bench Meters

Smart Bench Meters for a Variety of Laboratory Applications

- Intuitive Software Powers the Starter Series—Intuitive software and a wellorganized LCD display work in tandem to make operating the Starter Series a simple and straightforward task.
- Functional Design Assists with Ease-of-Use—With five clearly marked input keys and built-in or standalone electrode holders, operating the Starter bench meters and obtaining your measurements is an easy process.
- Reliable Calibration Results in Accurate Measurement—Starter tracks the accuracy of the calibration process right on the display so you can measure with peace-of-mind knowing your results will be highly precise.

OHAUS benchtop electrochemistry products include pH and conductivity meters that can also test for salinity, TDS, and ORP. The Starter Series of benchtop meters includes a wide breadth of products from basic level meters that offer high performance at a great value to premium performance products that have extended and advanced functionality.

Model	ST2100* pH/mV/Temp Meter	ST3100* pH/mV/Temp Meter	ST3100C EC/TDS/Salinity/Temp Meter
Measurement Range	0.0014.00 pH −19991999 mV 0 °C100 °C	-2.0016.00 pH −19991999 mV -5 °C110 °C	00.0 μS/cm…199.9 mS/cm 0.1 mg/l…199.9 g/l (TDS) 0.00 … 19.99 psu (Salinity) 0 °C…100 °C
Resolution	0.01 pH 1 mV 0.1 °C	0.01 pH 1 mV 0.1 ℃	Automatic Range 0.1 °C
Error Limits	± 0.01 pH ± 1 mV ± 0.5 ℃	± 0.01 pH ± 1 mV ± 0.5 °C	$\pm0.5\%$ of the Measured Value $\pm0.3^{\circ}\text{C}$
Calibration	1 or 2 Points 1 Predefined Buffer Group (4.01, 7.00, 10.01)	3 Points 3 Predefined Buffer Groups	1 Point 3 Predefined Standards
Memory	Last Calibration Data	99 Measurements Last Calibration Data	99 Measurements Last Calibration Data
Power Supply	110-240V/50Hz, DC 12V	110-240V/50Hz, DC 12V	110-240V/50Hz, DC 12V
Size/Weight	Approximately 220 W × 175 D × 78 H mm / 0.75 kg	Approximately 220 W × 175 D × 78 H mm / 0.75 kg	Approximately 220 W × 175 D × 78 H mm / 0.75 kg
Display	Liquid crystal	Liquid Crystal Backlight	Liquid Crystal Backlight
Input	BNC, impedance > $10e+12 \Omega$ Cinch, NTC $30 k\Omega$	BNC, impedance > $10e+12 \Omega$ Cinch, NTC $30 k\Omega$	Mini-Din
Temperature Compensation	ATC & MTC	ATC & MTC	Linear: 0.00 %/°C10.00 %/°C Reference Temperature: 20 & 25 °C
Housing	ABS	ABS	ABS

Model	ST2100	List Price
ST2100-B	2100 Meter with Built-in Electrode Arm	\$290
ST2100-E	2100 Meter, ST210 2-in-1 Plastic Refillable pH Electrode and pH Buffer Powder Sachet	\$329
ST2100-F	Danet i diraci bacilet	

Model	ST3100	List Price
ST3100-B	3100 Meter with Standalone Electrode Holder	\$450
ST3100-F	3100 Meter with ST310 3-in-1 Plastic Refillable pH Electrode, pH Buffer Powder Sachet and In-Use Cover	\$560

Model	ST3100C	List Price
ST3100C-B	3100C Meter with Standalone Electrode Holder, and 2 Small Bottles of Standard Conductivity Solution—1413 µS/cm and 12.88ms/cm)	\$489
ST3100C-F	3100C Meter with Standalone Electrode Holder, STCON3 4-Ring Conductivity Electrode ((70 µS/cm-200ms/cm)) and In-Use Cover	\$659

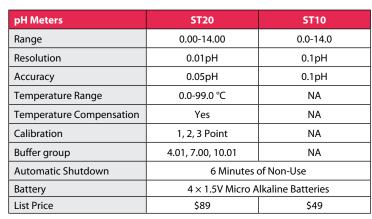
Measure ORP with ST2100 and ST3100 using optional electrodes, STORP1 Gel, Plastic electrode (Item 30038555) or STORP2 Refillable glass electrode (Item 30038553)

Starter Pen Meters

Accurate Results Anywhere and Anytime you Need Them

- Simple Operation in a Slim and Portable Design—Starter pen meters provide what should be expected of a small pen meter: simple, fast, straightforward, no-frills yet highly accurate operation time and time again.
- Durably Constructed to Withstand Wear and Tear Resulting from Repetitive use— With a durable plastic housing, a protective cap that safeguards the sensor and an automatic shutdown feature to preserve battery life, the Starter pen meters can endure consistent use in rugged environments.
- Waterproof Housing Protects the Meters in their Working Environment—Equipped with a wrist strap that helps to prevent unintentional dropping,
 Starter pen meters are constructed with an IP67 waterproof, designed that can prevent water damage when accidentally dropped into liquid designed to float.

OHAUS pen meters provide accurate measurement of pH, oxidation-reduction potential (ORP), conductivity, salinity, and total dissolved solids (TDS). Starter pen meters are the economical option when you are simply looking for meters that will provide accurate measurement with no restriction.



ORP Meters	ST20R	ST10R
Range	-1000mV-1000mV	-1000mV-1000mV
Resolution	1mV	1mV
Accuracy	2mV	2mV
Temperature Range	0.0-99.0 °C	NA
Temperature Compensation	Yes	NA
Calibration	NA	NA
Automatic Shutdown	6 Minutes of Non-Use	6 Minutes of Non-Use
Battery	4 × 1.5V Micro Alkaline Batteries	
List Price	\$145	\$110

Salinity Meters	ST20S	ST10S
Range	0.0-80.0 ppt	0.0-10.0 ppt
Resolution	0.1 ppt	0.1 ppt
Accuracy	±1.5% FS	±2.5% FS
ATC	With Temperature Display	Without Temperature Display
Display	Dual	Single
Automatic Shutdown	6 Minutes of Non-Use	6 Minutes of Non-Use
Battery	4 x1.5V Micro Alkaline Batteries	
List Price	\$95	\$65

Replaceable electrodes available for all Starter pen meters.



ST20C-C	ST20C-B	ST20C-A
0.00-19.99 ms/cm	0-1999 us/cm	0.0-199.9 us/cm
10 us/cm	1 us/cm	0.1 us/cm
±1.5% FS	±1.5% FS	±1.5% FS
Wi	th Temperature Disp	lay
Dual	Dual	Dual
6 Minutes of Non-Use		
4 x1.5V Micro Alkaline Batteries		teries
\$95	\$95	\$95
	10 us/cm ±1.5% FS Wi Dual	10 us/cm 1 us/cm ±1.5% FS ±1.5% FS With Temperature Displ Dual Dual 6 Minutes of Non-Use 4 x1.5V Micro Alkaline Batt

Conductivity Meters	ST10C-C	ST10C-B	ST10C-A	
Range	0.00-19.99 ms/cm	0-1999 us/cm	0.0-199.9 us/cm	
Resolution	10 us/cm	1 us/cm	0.1 us/cm	
Accuracy	±2.5% FS	±2.5% FS	±2.5% FS	
ATC	Without Temperature Display			
Display	Single	Single	Single	
Automatic Shutdown	6 Minutes of Non-Use			
Battery	4 x1.5V Micro Alkaline Batteries		teries	
List Price	\$67	\$67	\$67	

TDS Meters	ST20T-A	ST20T-B	ST10T-A	ST10T-B
Range	0.0-100.0 mg/L	0-1000 mg/L	0.0-100.0 mg/L	0-1000 mg/L
Resolution	0.1 mg/L	1 mg/L	0.1 mg/L	1 mg/L
Accuracy	±1.5% FS	±1.5% FS	±2.5% FS	±2.5% FS
ATC	With Temperature Display Without Temperature Display			rature Display
Display	Dual Single			gle
Automatic Shutdown	6 Minutes of Non-Use			
Battery	4 x1.5V Micro Alkaline Batteries			
List Price	\$95	\$95	\$75	\$75



Starter Portable Meters Versatile and Portable Meters for Wherever

Your Lessons Take You

- Intuitive Software Powers the Starter Series Intuitive software and a well-organized display work in tandem to make operating the Starter Series a simple and straightforward task.
- Compact And Ergonomic Design Creates A User Friendly Experience— Starter portable products fit comfortably in the palm of your hand. Each also comes equipped with a retractable, built-in stand that can be used to prop up the meter on a flat surface.
- Reliable Calibration Results in Accurate Measurement—Starter tracks the accuracy of the calibration process right on the display so you can measure with peace-of-mind knowing your results will be highly precise.

OHAUS portable electrochemistry products includes pH, conductivity, and dissolved oxygen meters that can also test for ORP and TDS. These portable meters offer convenience, reliability and durability in one compact design.

Model	ST300 pH/mV/Temp Meter	ST300C EC/TDS/Temp Meter	ST300D DO/Temp Meter
Measurement Range	0.0014.00 pH -19991999 mV 0 °C100 °C	0.0 μS/cm…199.9 mS/cm 0.1 mg/l…199.9 g/l (TDS) 0 °C…100 °C	0.0 to 199.9%; 200 to 400% 0.00 to 19.99; 20.0 to 45.0 mg/L 0.00 to 19.99; 20.0 to 45.0 ppm 0 to 50 °C
Measurement Resolution	0.01 pH 1 mV 0.1℃	Automatic Range 0.1°C	0.1%; 1% 0.1 mg/L; 1mg/L 0.01 ppm; 0.1 ppm 0.1 °C
Barometric Range	NA	NA	375 to 825 mmHg 500 to 1100 mbar 500 to 1100 hPa
Barometric Resolution	NA	NA	1 mmHg 1 mbar 1 hPa
Error limits	± 0.01 pH ± 1 mV ± 0.5 ℃	\pm 0.5 % of the Measured Value \pm 0.3 $^{\circ}$ C	± 1% ; ± 0.3 °C
Calibration	3 Points 1 Predefined Buffer Group	1 Point 3 Predefined Standards	1 or 2 Points 100% and 0%
Memory	30 Measurements Last Calibration Data	30 Measurements Last Calibration Data	30 Measurements Last Calibration Data
Power Supply	4 × AAA, > 500 Operating Hours	4 × AAA, > 250 Operating Hours	4 × AAA, > 250 Operating Hours
Size/Weight	Approximately 90 W × 150 D x 35 H mm / 0.18 kg (without batteries)	Approximately 90 W × 150 D x 35 H mm / 0.16 kg (without batteries)	Approximately 90 W × 150 D x 35 H mm / 0.18 kg (without batteries)
Display	Liquid Crystal	Liquid Crystal	Liquid Crystal
Input	BNC, impedance > 10e+12 Ω Cinch, NTC 30 kΩ	Mini-Din	BNC, Cinch, NTC 30 kΩ
Temperature Compensation	ATC & MTC	ATC,Linear: 0.00 %/°C10.00 %/°C Reference temperature: 20 & 25 °C	ATC & MTC
Salinity Compensation	NA	NA	0.0 to 50.0 ppt
IP Protection	IP54	IP54	IP54
Housing	ABS	ABS	ABS

Model	ST300	List Price
ST300	300 Meter, ST320 3-in-1 Plastic Gel pH Electrode, and pH Buffer Powder Sachet	\$299
ST300-B	300 Meter with IP54 Sets, Electrode Clip, Wrist Strap and 4 AAA Batteries	\$259

Model	ST300C	List Price
ST300C	300C Meter, with STCON3 4-Ring Conductivity Electrode (70 μS/ cm-200ms/cm), 2 Small Bottles of Standard Conductivity Solution - 1413 μS/cm and 12.88ms/cm, IP54 Sets, Electrode Clip, Wrist Strap, 4 AAA Batteries	\$399

Model	ST300D	List Price
ST300D	300D Meter with STDO11 Galvanic DO Electrode, and STTEMP30 Temperature Electrode	\$579
ST300D-B	300D Meter with IP54 Sets, Electrode Clip, Wrist Strap and 4 AAA Batteries	\$329

Electrodes and Accessories

CT10A ST

CT10B ST

CS10C ST

CT20A ST

CT20B ST

CS20C ST

R10 ST

R20 ST

\$43

\$43

\$43

\$43

\$43

\$43

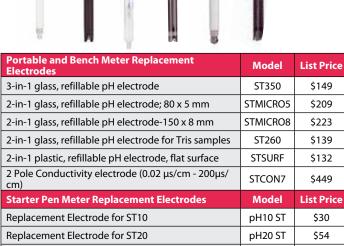
\$66

\$87

Starter Electrodes

The OHAUS Starter Series includes pH, reference, oxidation-reduction potential (ORP), conductivity, dissolved oxygen (DO) and temperature electrodes that can be used in conjunction with our bench and portable meters. Each electrode has been carefully tested to ensure highly accurate and repeatable results.





Replacement Electrode for ST10C-A, ST10T-A

Replacement Electrode for ST10C-B, ST10T-B

Replacement Electrode for ST20C-A, ST20T-A

Replacement Electrode for ST20C-B, ST20T-B

Replacement Electrode for ST20C-C, ST20S

Replacement Electrode for ST10R

Replacement Electrode for ST20R

Replacement Electrode for ST10C-C, ST10S



ST300, ST2100 & ST3100 Compatible Electrodes	Model	List Price
3-in-1 Plastic Refillable pH Electrode	ST310	\$120
2-in-1 Plastic Refillable pH Electrode	ST210	\$55
3-in-1 Plastic Gel pH Electrode	ST320	\$120
2-in 1 Glass Muddy Sample pH Electrode	ST230	\$104
2-in-1 Glass Pure Water Sample pH Electrode	STPURE	\$114
Temperature Electrode	STTEMP30	\$67
Gel Plastic ORP Electrode	STORP1	\$76
Refillable Glass ORP Electrode	STORP2	\$205
Silver/Silver Chloride Reference Electrode	STREF1	\$120
Saturated Calomel (SCE) Reference Electrode	STREF2	\$157
ST300C & ST3100C Compatible Electrodes	Model	List Price
4-Ring Conductivity Electrode (70 μS/cm-200ms/cm)	STCON3	\$256
300D Compatible Electrodes	Model	List Price
Temperature Electrode	STTEMP30	\$67
Galvanic DO Electrode	STD011	\$312

Buffers & Accessories	OHAUS Item Number	300	300C	300D	ST2100	ST3100	ST3100C	List Price
pH Buffer Powder Sachet (4.01; 7.00; 10.01)	83033971	•			•	•		\$15
pH Buffer 4.01 250ml*6)	30065083	•			•	•		\$140
pH Buffer 7.00 250ml*6	30065084	•			•	•		\$140
pH Buffer 10.01 250ml*6	30065086	•			•	•		\$165
pH Electrode Reference Electrolyte	30059255	•			•	•		\$24
pH Electrode Protection Solution (3M KCI)	30059256	•			•	•		\$18
Standard Conductivity Solution 84uS/cm 250ml*6	30065087		•				•	\$200
Standard Conductivity Solution 1413uS/cm 250ml*6	30065088		•				•	\$140
Standard Conductivity Solution 12.88mS/cm 250ml*6	30065089		•				•	\$140

Elementary Measurement Solutions



Harvard Junior

Mechanical Balance Grade Level: K-6 (ages 5 and up)

3 YEAR WARRANTY!



WARNING:

CHOKING HAZARD – Small parts Not for children under 3 yrs.

With its unique design, the Harvard Junior offers the combination of a colorful and inviting, plastic two-pan balance with the durability and accuracy of the more expensive Harvard Trip. The Harvard Junior is not only the most feature rich balance in its class but includes a FREE teacher-developed, classroom tested elementary activity guide focused on practical yet enjoyable activities that link science and math concepts, are standards-based, and utilize common items already found in your classroom or at home.

		_		_
The OF	1VIIC H	arvard	lunior	features

- A unique design offering increased durability and superior accuracy by employing a precision engineered metal beam for years of maintenance-free classroom use
- Dual style, interchangeable pans which allow for a broader range of objects to be weighed
- Stackability on either platform to maximize storage space when not in use
- A spring-loaded zero adjust knob & zero adjust compensation beam for precise measurements
- Manual damping device to speed up the weighing process

Harvard Junior					
Model	HJ2001				
Capacity	2000(g)				
Readability	0.5(g)				
Mass Set	Included, 8pc Metal, 370g				
List Price	\$105				

Bundles & Software	Item No.	List Price
HJ2001 with Virtual Lab	80104169	\$151
HJ2001 with Virtual Lab and GM 101	80104170	\$324
Harvard Junior Virtual Lab, Single User	80104167	\$118
Harvard Junior Virtual Lab, Network User	80104168	\$352



Measurement Skills Assessment Review Kit

Making "Fun" of Measurement in the Elementary Classroom Grade Level focus: Grades 2-6 (Ages 8-12)

The OHAUS Measurement Game is specifically developed to provide comprehensive coverage of a variety of measurement topics for elementary students. With its simple but effective board game format, students quiz and learn from each other in groups of 2 or 3 while the teacher is free to manage the classroom and provide guidance during the activity. Each game board has both a short and long version of the game to allow for flexibility in amount of time spent on the activity. Games are quickly setup, easily cleaned up and stored in their own convenient box. Includes software compatible with interactive whiteboards.

Each kit contains:



- A set of 750 standards-based assessment review questions
- 12 game boards and enough materials for up to 36 students playing games simultaneously
- A presentation CD-ROM with 750 interactive assessment questions
- A comprehensive teacher planning and resource guide
- Built in links to hands on activities using the OHAUS Harvard Junior pan balance (sold separately)

The OHAUS Measurement Review Kit also features:

- Comprehensive coverage of up-to-date measurement concepts
- No consumable materials to purchase year after year
- Differentiated instruction capabilities accommodating visual, tactile, oral and aural learning styles
- Flexible design that accommodates lesson times from 5 to 30+ minutes
- Standard rules & game board configuration to maximize productive learning time
- Easy-to-follow instructions & minimal setup requirements

Math & Science Measurement Review Kit				
Model	GM101			
List Price	\$92			

BUY THE BUNDLE AND SAVE!

OHAUS Harvard Junior Measurement Bundle includes 2 Harvard Junior balances and 1 Measurement Kit. **Item # 80252097. List Price \$268**

Elementary Balances







Primer Balance

School Balance

Introduce precision mass measurement to elementary grade students

This rugged, lightweight balance is the perfect tool for introducing the science of metrology. Weigh everyday objects, from paper clips to books, or demonstrate mass measurement concepts with the included mass set. Grades K-6 (Ages 5-12).

OHAUS Value:

Large, washable, weighing pans; easy-to-use zero adjustment ensures accuracy and repeatability; dual pointers allow viewing results from both sides; and 18 piece, plastic mass set included with balance.

Primer® Balance

Teach younger students basic mass measurement concepts

This lightweight yet durable beginner balance is ideal for many simple classroom activities with both liquids and solids. Grades K-3 (Ages 5-9).

OHAUS Value:

Large, washable, 500 ml buckets; activity guide with 16 exercises; easy-to-use zero adjustment ensures accuracy and repeatability; dual pointers allow viewing results from both sides.

	School Balance	Primer® Balance
Model	SB1200	80410-00
Capacity	2000(g)	2000(g)
Readability	0.5(g)	1(g)
Polystyrene Platform W × H (in/cm)	5.5 × 5.5/14 × 14	$4 \times 4/10.2 \times 10.2$
List Price	\$50	\$36

BUY THE BUNDLE AND SAVE!

School Balance Measurement Bundle includes six OHAUS School Balances and one Measurement Skills Assessment Kit.

Item # 80252137. List price \$327

Triple Beam Balances



Triple Beam Balance® The standard by which all others are measured

Whether you're in need of a basic but high quality mechanical balance or you're looking for the top-of-the-line model that gives you complete flexibility in the classroom, OHAUS has a triple beam for you. No matter which triple beam you choose, rest assured you can count on every OHAUS Triple Beam balance to be accurate and dependable time and time again. Grades 4-12. (Ages 10 and up)

All OHAUS Triple Beams feature:

- Three notched and tiered beams with center reading
- Spring loaded zero adjust compensator
- Outstanding engineering with precision design and solid construction
- Positive poise positioning ensures repeatable results
- Magnetic damping to speed up weighing









10 Year Warranty

Triple Beam (Model TJ611) 3 Year Warranty

	BASIC MODEL	STANDARD MODEL	FULLY FEATURED-BEST VALUE
Model	TJ611	750-S0	TP2611
Capacity	610g (2610g w/optional attachment weights)	610g (2610g w/optional attachment weights)	2610g
Readability	0.1g	0.1g	0.1g
Warranty	3 YRS	5 YRS	10 YRS
Attachment Weights	Sold separately	Sold separately	Included
Security Loop (Cable Sold Separately)	YES	YES	YES
Rod & Clamp	NA	Sold separately	Included
Kensington Security Slot	NA	NA	Yes (cable sold separately)
Transportation/Storage Lock	NA	NA	YES
Carrying Handle	NA	NA	YES
List Price	\$147	\$163	\$182

Accessories	Item No.	Price List
Metric Attachment Mass Set, 2 - 1000g, 1 - 500g, for Metric Triple Beam Balance	80780108	\$52
Security Device for Triple Beam Pro only	80850043	\$158
Security Device for Triple Beam & Triple Beam Pro	80850000	\$60
Polypropylene Scoop, $12'' \times 6'' \times 2.75''$ footed & 38g counterweight (for Triple Beam Balance without tare), Scoop weight 128g	80780014	\$37
Stainless Steel Scoop, 12" × 6" × 2.75" and counterweight (for Triple Beam Balance without tare), Scoop weight 148g	80780015	\$88
Polypropylene Maxi-Scoop, 10" dia. × 2.5" deep pouring spout, weight 142g & 42g counterweight fo Triple Beam Balance	80780016	\$39
Vinyl Dust Cover for Triple Beam Balances	80780017	\$26
Rod & Clamp Assembly for Triple Beam and Harvard Trip Balances	80780011	\$50
Triple Beam Virtual Lab, Single User	80104162	\$118
Triple Beam Virtual Lab, Network User	80104163	\$352

Specialty Triple Beams

Designed with same quality and craftsmanship as the standard OHAUS 750-S0, these triple beams serve specific classroom needs by offering scoops, animal containers, pans, tare beams and more! Refer to the chart below for specific configurations. Each balance offers a generous 5 year warranty and the same accurate results you've come to expect from an OHAUS balance. Grades 4-12 (Ages 10 & up)





Triple Beam with Polypropylene Scoop (Model 720-00)



Triple Beam with Animal Container (Model 730-00)





Triple Beam with Stainless Steel Pan (Model 710-00)



Triple Beam with Stainless Steel Scoop (Model 720-S0)



Dial-O-Gram® with Attachment Masses (Model 1650-W0)

Specialty Tripl	Specialty Triple Beam						
Description	with Stainless Steel Pan	with Stainless Steel Pan & Tare	with Polypropylene Scoop	with Stainless Steel Scoop	with Animal Container	with Stainless Steel Plate & Tare	
Model	710-00	710-T0	720-00	720-S0	730-00	760-00	
Capacity	610g	610g	610g	610g	610g	610g	
Readability	0.1g	0.1g	0.1g	0.1g	0.1g	0.1g	
Pan/Platform size	15.2 cm (6" Diameter)	15.2 cm (6" Diameter)	$30.5 \times 15.2 \times 7 \text{ cm}$ $(12 \times 6 \times 2.75")$	$30.5 \times 15.2 \times 7 \text{ cm}$ $(12 \times 6 \times 2.75")$	22.9 cm Dia. × 15.2 cm H (9" × 6")	15.2 cm (6" Diameter)	
List Price	\$223	\$273	\$264	\$306	\$330	\$231	

Dial-O-Gram®			
Description	with Stainless Steel Pan & Tare	with Stainless Steel Plate & Tare	with Stainless Steel Plate, Tare & Attachment Masses
Model	1610-00	1650-00	1650-W0
Capacity	610g	610g	2610g
Readability	0.1g	0.1g	0.1g
Pan/Platform size	15.2 cm Diameter (6" Diameter)	15.2 cm Diameter (6" Diameter)	15.2 cm Diameter (6" Diameter)
List Price	\$338	\$294	\$338

Mechanical Balances

Hanvard Trip

Harvard Trip United States Patent and Trademark Office Design Trademark Registration Number 1,439,006 (Registered 1,437,111 with dial)

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Cent-O-Gram United States Patent and Trademark Office Design Trademark Registration # 1,437,797



Dial-O-Gram United States Patent and Trademark Office Design Trademark Registration # 1,436,267

Harvard Trip®

Two-pan design is ideal for comparative weighing

Based on the classic Roberval balance principle, the Harvard Trip balance allows the determination of the difference in mass (rather than absolute value) between two objects.

OHAUS Value:

Strong construction and precision-engineered, built-in sliding masses for easy weighing, magnetic damping for quicker results, self-aligning with beam design and special floating agate bearing, counterbalancing knob provides quick zeroing and stays in position, many years of precision and reproducibility with hardened steel edges, stainless steel plates. Grades 4-12 (Ages 10 and up)

Harvard Trip	Single Beam	Double Beam	Double w/Tare			
Capacity		2000g				
Readability		0.1g				
Tare capacity	_	_	225g			
Top Beam Calibration Bottom Beam	10g × 0.1g —	$10g \times 0.1g$ $200g \times 10g$	10g × 0.1g 200g × 10g			
Stainless steel plate Platform Diameter	6/15.2 (in/cm)					
Model	1450-SD	1550-SD	1560-SD			
List Price	\$304	\$326	\$340			
Accessories						
Rod and Clamp Accessory for Harvard Trip		Item 80780011	\$50			

Cent-O-Gram® & Dial-O-Gram®

Quality, high precision overhead mechanical balances

OHAUS Cent-O-Gram and Dial-O-Gram Overhead Balances offer the accuracy and convenience of an integrated weigh-below balance while allowing students to visualize mass measurement principles. Designed with a hanging pan system, both balances offer 10 times the readability of the OHAUS Triple Beam and Dial-O-Gram top-loading balances. The Vernier dial on the Dial-O-Gram 310 replaces two of the beams and is a great time saver. Grades 6-12 (Ages 12 and up)

OHAUS Value:

Self-aligning with beam design and special floating agate bearings, counter-balancing knob provides quick zeroing and stays in position, magnetic damping for quicker results, durable with aluminum pressure casting for the base and beam assembly, removable stainless steel pan.

	Cent-O-Gram	Dial-O-Gram
Capacity (g)	311	310
Readability (g)	0.01	0.01
Front Beam Calibration (g) Second Beam Third Beam Rear Beam Dial	1 × 0.01 10 × 1 100 × 10 200 × 100	100 × 10 100 × 10 100 × 10 10 × 0.01 10 × 0.01
Stainless Steel Pan (removable) Platform Diameter × Depth (in/cm)	3.5 × 0.5	/8.9 × 0.7
Model	311-00	310-00
List Price	\$268	\$325
Accessories	Item No.	
Test Tube Kit for 311-00 and 310-00 Balances	Item 80780018	\$26

Spring Scales

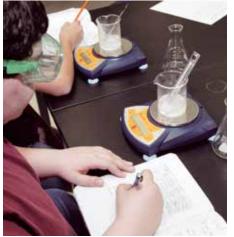
Spring ScalesDesigned to deliver reproducible results time after time

Perfect for general weighing, force experiments, action-reaction demonstrations, and much more. Grades 5-12 (Ages 11 and up)



Best Seller





Education Edition

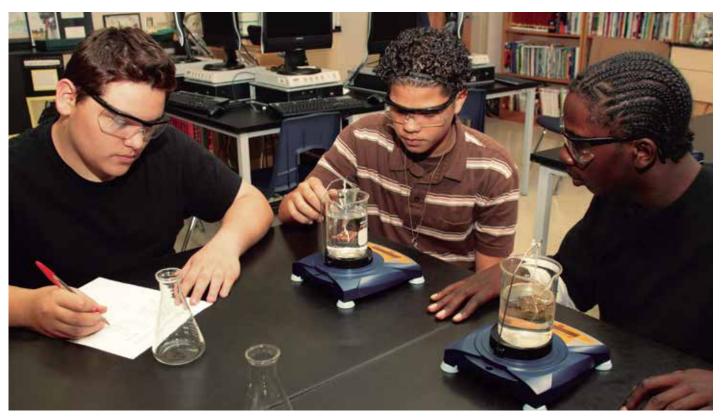
- Internal overload protection ensures your balance is safe from damage when excessive weight is placed on the pan
- Sudden impact protection eliminates the worry of dropping or being unexpectedly struck in the lab
- Encapsulated strain gauges protect against corrosion and humidity, resulting in superior performance over a longer period of time
- Interface with data acquisition devices—interfaces with the most popular data acquisition devices in education

Classroom-practical features, superior performance and simple operation have made the OHAUS Scout Pro balances the most popular and durable electronic balances in science labs today. With models offering optional USB or RS232 interface, milligram readability, multiple weighing units, a variety of application modes and now the ability to use your Scout Pro as a data logging sensor, the experimental possibilities are virtually endless.

OHAUS Value:

- Easy-to-use for students of all skill levels.
- Large LCD display—View student's results from any angle.
- Integrated weigh-below hook—Attached hook can't be lost!
- Easy to keep clean with sealed front panel, molded spill ring and removable stainless steel platform





Every Scout® *Pro* **Education Balance includes:**

A free above-balance density/specific gravity determination kit (all education models up to 4000g), AC adapter, integrated weigh-below hook, integrated security bracket, free calibration weight (all models up to 600g), USB/RS232 option (interface separate purchase.)

•											
Scout Pro											
Capacity (g)	120*	200	400	600	400	600	2000	4000	6000	6000	
Readability (g)	0.001		0.01				0.1			1	
Weighing Units		g	, N, oz			g,N,oz,lb		g, kg, N	N, oz, lb		
Application Modes		Specific Gravity, Parts Counting, Percentage Weighing, Totalization, Display Hold									
Power Requirements		AC Adapter (included) or 4-AA Batteries (not included)									
Calibration		Digital Calibration From Keypad									
Display			Higl	h Contrast LO	D with 6 dig	its 0.6in/15r	nm high				
Pan Size (in/cm)	3.6/9 Diameter		4.7/12 C	iameter			6.5 × 5	.6/16.5 × 14	(W × D)		
Dimensions W × H × D (in/cm)	7.5 × 4.4 × 8.3/ 19.2 × 10.8 × 21				7.56×2.13	$3 \times 8.27/19.2$	× 5.4 × 21				
Model	SPE123	SPE202	SPE402	SPE602	SPE401	SPE601	SPE2001	SPE4001	SPE6001	SPE6000	
List Price	\$584	\$428	\$600	\$702	\$236	\$349	\$441	\$646	\$728	\$366	
Model**	SPE123/B	SPE202/B	SPE402/B	SPE602/B	SPE401/B	SPE601/B	SPE2001/B	SPE4001/B	SPE6001/B	SPE6000/B	
List Price	\$633	\$474	\$648	\$749	\$284	\$397	\$490	\$694	\$776	\$413	

^{*}Includes draft shield

^{**} Scout Pro Virtual Lab Bundle

Accessories	Item No.	List Price
Hard Shell Carrying Case	80850028	\$88
Security Device	80850000	\$60
Scout <i>Pro</i> in-use cover, Pk of 3	71168909	\$37
Scout <i>Pro</i> USB Interface Kit (cable included)	83032108	\$113
Scout <i>Pro</i> RS232 Interface (9-pin cable included)	83032107	\$113
Scout Pro Virtual Lab, Single User	80104148	\$118
Scout Pro Virtual Lab, Network User	80104149	\$352



Portable



Navigator®

Touchless Sensors Free Up Your Hands!

- 2 Touchless Sensors—frees up your hands so you can focus on handling samples! Set up independently to control up to 36 combinations of operations.
- Superior Protection—overload protection prevents damage to the scale from undue shock or overloading. Integrated shipping lock protects the load cell from damage during transportation or storage.
- Multiple Application Modes—counting, percent weighing, checkweighing, display hold, accumulation/totalization

The Navigator series offers a unique combination of features including touchless sensors, ultra-fast response time and superior overload protection for use in a wide variety of classroom experiments.

Navigator®										
Capacity (g)	210	210	510	1100	2100	4100	5100	4000		
Readability (g)	0.01	0.1	0.1	0.1	0.1	0.2	0.5	1		
Weighing Units	g, kg, oz	g, kg, oz (decimal/fractional), lb, lb:oz (decimal/fractional), ozt, ct, grain, Newto dwt, tical, tola, taels (3)								
Pan Size (in/cm)		120mm	diameter		1					
Dimensions W×H×D (in/cm)				204 x 2	212 x 58					
Model	NV212	NV212 NV211 NV511 NV110			NV2101	NV4101	NV5101	NV4000		
List Price	\$313	\$185	\$214	\$278	\$362	\$398	\$438	\$195		



The economical portable scale

- Includes AC adapter and stainless steel pan
- Perfect for lab prep work or teacher demonstrations

From the classroom to the field, our Compact Scales are reliable and easy to use. The portable Compact moves with you to any environment and has a long battery life for all-day field experiments. Consistent, quick weighing has never been so easy!

Compact								
Capacity × Readability (g)	200 × 0.1	2000 × 1	5000 × 1					
Pan Size (in/cm)	5.75 × 5.25/14.6 × 13.3							
Dimensions (W \times H \times D)(in/cm)	$7.6 \times 5.3 \times 1.5/19.3 \times 13.5 \times 3.9$							
Span Mass (g)	200	1000	2000					
Model	CS200	CS2000	CS5000					
List Price	\$132	\$132	\$155					



Every CS model includes a stainless steel pan and AC Power Pack (a \$40 value!)

Pocket

Small enough to fit in your shirt pocket!

- High contrast LCD
- Energy-saving auto shut-off feature
- Low battery, stability, overload and underload indicators

OHAUS PS pocket scales deliver great performance in a unique stylish yet functional design. The combination pan & cover slides back for weighing and forward to cover the display and keys for storage or transport. Two mechanical buttons and a crisp LCD allow for simple, guick operation.

LED allow for simple, quick operation.								
Pocket								
Capacity × Readability (g)	120 × 0.1	250 × 0.1						
Weighing Units	g, oz, ozt, dwt							
Pan Size (in/mm)	2.36 × 2.7	'5/60 × 70						
Model	PS121	PS251						
List Price	\$51	\$67						



Hand-Held

When you need mobility

- Energy-saving auto shut-off feature
- Runs on two AAA batteries (included)
- Low battery, overload and underload indicators

This pocket size electronic balance is perfect for teacher preparation, field use, and workshops. OHAUS accuracy that's convenient to take anywhere!

OHAUS Value:

Generous 3.3" × 3" weighing surface, backlit display on HH120 and HH320 models, rugged plastic construction, protective snap-on cover included.



0.0 * 1.		
120 × 0.1	320 × 0.1	
g, oz, d\		
	νι, υ <u>ν</u> ι	
$3.0/8.3 \times 7.6$		
$0.8/13.6 \times 8.3 \times 2.$.0	

Hand-Held							
Capacity × Readability (g)	0-60×0.1/60-120×0.2	120 × 0.1	320 × 0.1				
Weighing Units	g	g, oz, dwt, oz t					
Pan Size L × W (in/cm)	3.25 × 3.0/8.3 × 7.6						
Dimensions L \times W \times H (in/cm)	5.35 × 3.25	$5 \times 0.8/13.6 \times 8.3 \times 2$.0				
Model	HH120D	HH120	HH320				
List Price	\$139	\$166	\$207				

YA Series

Accuracy on the go!

- Use it on field trips when you need complete portability
- Perfect for determining the mass of rocks, minerals and crystals
- Flip top lid protects the pan & display while fitting easily into your pocket
- Powered by 2 "AAA" batteries (included)

The OHAUS YA Series pocket scale delivers great performance in a stylish, yet functional design and convenient size, that's ideal to take anywhere—carry it in a brief case or drop it in your pocket!

With a bright, backlit LCD and simple, quick operation, there's no reason to settle for other brands when you can have the BEST IN CLASS from OHAUS.

YA Series								
Capacity \times Readability (g)	100 × 0.01 300 × 0.05 500 × 0							
Pan Size (in/cm)	2.75 × 1.9/70 × 50							
Dimensions (W \times H \times D)(in/cm)	4.3 × 2.9 × 0.7/110 × 75 × 20							
Weighing Units		g, oz , ct, gn						
Model	YA102	YA302	YA501					
List Price	\$84	\$72	\$51					





Analytical & Toploading Balances







Pioneer® Series

Analytical and Precision Balances

- Easy to Clean Analytical Draftshield—Designed with all glass panels, including three sliding doors. All panels are easy to remove and replace, and together with a stainless steel bottom, make it fast and easy to clean
- Upfront Level Indicator—Quickly ensure the balance is level prior to use
- Selectable Environmental Settings—Three filter modes and adjustable zero tracking adjust balance sensitivity to environmental disturbances

The Best Balance For Basic Weighing!

With the right combination of performance and features, the OHAUS Pioneer Series of analytical and precision balances offers uncomplicated performance for all your basic weighing needs. Not recommended for students under the age of 12.

Standard Features Include:

Removable Doors for Convenient Access and Easy Cleaning

Pioneer's draftshield has been designed with easy to remove doors and panels. Disassembly takes just seconds and all components, including the balance housing, can be quickly wiped clean.

Periodic cleaning made easy helps to avoid sample contamination and extends product life. In addition, a standard in-use cover provides added protection against accidental spillage and helps minimize the chance of damage to the display and keypad.

Upfront Level Indicator Ensures Accuracy

The up-front level indicator eliminates the need to look behind the balance during the leveling process.

Environmental Settings for Working in Practically Any Condition

Pioneer is designed with selectable environmental settings. When working in harsh environments, the balance can be adjusted to compensate for vibrations and other disturbances. Conversely, the balance can be adjusted for working in slow filling applications where sensitivity is a must.

Other Standard Features and Equipment

AC adapter, user selectable span calibration points, software reset menu, stability indicator, Auto Tare, user selectable communications settings, user selectable printing options, stainless steel platform

Pioneer	PA84	PA124	PA224	PA163	PA323	PA523	PA1602	PA2202	PA3202	PA4202	PA2201	PA4201
Capacity (g)	85	120	220	160	320	520	1600	2200	3200	4200	2200	4200
Readability D	0.1 mg 1 mg				10 mg 100 mg					mg		
Application Modes		Weighing, Parts Counting, Percent, Density Determination, Dynamic Weighing										
Weighing Units	mg, g, ct, oz, dwt, tical, tola, mommes, baht, grain, mesghal,Newton, ozt,Custom Unit					g, kg, lb, ct, oz, dwt, tical, tola, mommes,baht, grain, mesghal, Newton, ozt,Custom Unit						
Platform Size (in/cm)		Ø 3.54/Ø 9			Ø 4.72/Ø 12		Ø 7.1/Ø 18					
Draftshield	7.3 in / 18.5 cm inside height							No	ne			
List Price	\$1,605	\$1,926	\$2,140	\$963	\$1,124	\$1,338	\$866	\$1,017	\$1,231	\$1,391	\$910	\$1,070

Adventurer® Series

Analytical and Precision Balances

- USB connection option expands the capability of your Adventurer Pro to interface with the most popular data acquisition devices in education
- SmarText™ software easily guides users through applications
- The frameless draftshield with removable doors offers easy access to the weighing chamber and is extremely easy to clean.

The most complete balance in its class

The Adventurer *Pro* is the industry's most versatile balance: it counts, it sums, it holds and it delivers traceable results. No other balance in its class offers as many features in a compact design. Includes integrated security bracket. Not recommended for students under the age of 12.

Standard Features Include:

Easy Access, Frameless Draftshield with Removable Doors

All doors, including the front and back glass panels, disassemble in seconds, and together with a stainless steel bottom, make it fast and easy to clean.

SmarText™ Software Guides Users Through Balance Use

SmarText[™] is OHAUS' easy to use balance software that utilizes text prompts to guide users through application use and balance setup.

QuadraStance™ Design Provides Superior Footprint Stability

To enhance weighing stability, QuadraStance incorporates four feet to provide superior footprint stability on any surface.

Flexibility of Available Options

USB or second RS232 interface option allows connection to multiple peripherals.

Multiple application modes:

Basic weighing, parts counting, percent weighing, animal/dynamic weighing, totalization, display hold, weigh below balance



Analytical Model



Precision Model

Adventurer	AX124/E	AX224/E	AX223/E	AX423/E	AX523/E	AX622/E	AX1502/E	AX2202/E	AX4202/E	AX4201/E	AX8201/E	
Capacity (g)	120	220	220	420	520	620	1,520	2,200	4,200	4,200	8,200	
Readability (g)	0.0	001		0.001			0.	01		0.	1	
Weighing Units	gram, milligram, mesgal, momme, Newton, ounce, pennyweight, Baht, carat, grain, pound, Tael (Hong Kong), Tael, (Singapore), Tael (Taiwan), tical, tola, troy ounce, custom (1)											
Weighing Applications												
Pan Size (in/cm)	Ø 3.5	5/Ø 9		Ø 5.1/Ø 13				6.9 x 7.7/1	17.5 x 19.5			
Draftshield	Yes	Yes	Yes	Yes	Yes	None	None	None	None	None	None	
List Price	\$2,800	\$3,100	\$1,550	\$1,800	\$2,100	\$1,200	\$1,500	\$1,700	\$2,100	\$1,200	\$1,350	

USB option

ASTM Weights & Weight Sets

ASTM Class 4 Weights

Adjusted to Meet or Exceed ASTM Class 4 Tolerances

- Weights from 5mg to 2kg are Stainless Steel. Weights from 1mg to 2mg are Aluminum.
- Weight Sets include a Polycarbonate Case.
- Individual Weights up to 500mg include a Polypropylene Case. Weights from 1g to 2kg include a Polycarbonate Case.



Weights

Model	Item No.	List Price
Weight, 1mg, ASTM 4	80780058	\$35
Weight, 10mg, ASTM 4	80780059	\$35
Weight, 100mg, ASTM 4	80780060	\$35
Weight, 1g, ASTM 4	80780061	\$51
Weight, 10g, ASTM 4	80780062	\$57
Weight, 100g, ASTM 4	80780063	\$89
Weight, 2mg, ASTM 4	80780064	\$35
Weight, 20mg, ASTM 4	80780065	\$35
Weight, 200mg, ASTM 4	80780066	\$35
Weight, 2g, ASTM 4	80780067	\$51
Weight, 20g, ASTM 4	80780068	\$62
Weight, 5mg, ASTM 4	80780071	\$35
Weight, 50mg, ASTM 4	80780072	\$35
Weight, 500mg, ASTM 4	80780073	\$35
Weight, 5g, ASTM 4	80780074	\$51
Weight, 50g, ASTM 4	80780075	\$71
Weight Set, 500mg-1mg, ASTM 4	80780100	\$343
Weight Set, 100g-1mg, ASTM 4	80780101	\$599
Weight Set, 50g-1mg, ASTM 4	80780111	\$636
Weight, 100g, ASTM 4, NO POLISH, CYL	80780133	\$71
Weight, 200g, ASTM 4, CYL	80780135	\$86
Weight, 300g, ASTM 4, CYL	80780137	\$81
Weight, 400g, ASTM 4, CYL	80780139	\$122
Weight, 500g, ASTM 4, CYL	80780141	\$108
Weight, 1kg, ASTM 4, CYL	80780143	\$142
Weight, 2kg, ASTM 4, CYL	80780145	\$177

^{*}Weight sets are available, please contact OHAUS Corporation

Weights with Certificate

Model	Item No.	List Price
Weight, 100g, ASTM 4, w/NVLAP, CERT, CYL	80780134	\$160
Weight, 200g, ASTM 4, w/NVLAP, CERT, CYL	80780136	\$206
Weight, 300g, ASTM 4, w/NVLAP, CERT, CYL	80780138	\$186
Weight, 400g, ASTM 4, w/NVLAP, CERT, CYL	80780140	\$220
Weight, 500g, ASTM 4, w/NVLAP, CERT, CYL	80780142	\$238
Weight, 1kg, ASTM 4, w/NVLAP, CERT, CYL	80780144	\$251
Weight, 2kg, ASTM 4, w/NVLAP, CERT, CYL	80780146	\$298
Weight Set, 500mg-1mg, ASTM 4, CERT	80850263	\$856
Weight Set, 50g -1mg, ASTM 4, CERT	80850264	\$1562
Weight Set, 100g-1mg, ASTM 4, CERT	80850265	\$1668
Weight, 1mg, ASTM 4, CERT	80850282	\$107
Weight, 10mg, ASTM 4, CERT	80850283	\$107
Weight, 100mg, ASTM 4, CERT	80850284	\$107
Weight, 1g, ASTM 4, CERT	80850285	\$122
Weight, 10g, ASTM 4, CERT	80850286	\$133
Weight, 100g, ASTM 4, CERT	80850287	\$149
Weight, 2mg, ASTM 4, CERT	80850288	\$107
Weight, 20mg, ASTM 4, CERT	80850289	\$107
Weight, 200mg, ASTM 4, CERT	80850290	\$107
Weight, 2g, ASTM 4, CERT	80850291	\$124
Weight, 20g, ASTM 4, CERT	80850292	\$137
Weight, 5mg, ASTM 4, CERT	80850293	\$107
Weight, 50mg, ASTM 4, CERT	80850294	\$107
Weight, 500mg, ASTM 4, CERT	80850295	\$107
Weight, 5g, ASTM 4, CERT	80850296	\$126
Weight, 50g, ASTM 4, CERT	80850297	\$140

ASTM Class 6 Weights - Cylindrical

Adjusted to Meet or Exceed ASTM Class 6 Tolerances

- Weights from 1g to 2kg are Stainless Steel and Weights 500mg and below are Aluminum
- Weight Sets include a Weight Case.
- Individual Weights do not include a case



Cylindrical Weights



Hooked Weights

Cylindrical Weights

Model	Item No.	List Price
Weight Set, 500mg-1mg, ASTM 6, CYL	80850110	\$59
Weight Set, 50g-10mg, ASTM 6, CYL	80850111	\$142
Weight Set, 100g-1mg, ASTM 6, CYL	80850112	\$171
Weight Set, 200g-1mg, ASTM 6, CYL	80850113	\$209
Weight Set, 500g-1g, ASTM 6, CYL	80850114	\$269
Weight Set, 1kg-1g, ASTM 6, CYL	80850115	\$369
Weight Set, 2kg-1g, ASTM 6, CYL	80850116	\$561
Weight Set, 50g-1g, ASTM 6, CYL	80850117	\$117
Weight, 1g, ASTM 6, CYL, Body	80850118	\$11
Weight, 2g, ASTM 6, CYL, Body	80850119	\$11
Weight, 5g, ASTM 6, CYL, Body	80850120	\$12
Weight, 10g, ASTM 6, CYL, Body	80850121	\$13
Weight, 20g, ASTM 6, CYL, Body	80850122	\$16
Weight, 50g, ASTM 6, CYL, Body	80850123	\$18
Weight, 100g, ASTM 6, CYL, Body	80850124	\$24
Weight, 200g, ASTM 6, CYL, Body	80850125	\$34
Weight, 300g, ASTM 6, CYL, Body	80850126	\$42
Weight, 500g, ASTM 6, CYL, Body	80850127	\$54
Weight, 1kg, ASTM 6, CYL, Body	80850128	\$94
Weight, 2kg, ASTM 6, CYL, Body	80850129	\$150

Hooked Weights

Model	Item No.	List Price
Weight Set, 1kg-10g, ASTM 6, Hooked	80850130	\$140
Weight, 10g, ASTM 6, Hooked	80850131	\$16
Weight, 20g, ASTM 6, Hooked	80850132	\$16
Weight, 50g, ASTM 6, Hooked	80850133	\$17
Weight, 100g, ASTM 6, Hooked	80850134	\$18
Weight, 200g, ASTM 6, Hooked	80850135	\$25
Weight, 500g, ASTM 6, Hooked	80850136	\$36
Weight, 1kg, ASTM 6, Hooked	80850137	\$68

Slotted Weights

Model	Item No.	List Price
Weight Set, 500g-10g, ASTM 6, Slotted	80850138	\$114
Weight Set, 500g-1g, ASTM 6, Slotted	80850139	\$147
Weight, 1g, ASTM 6, Slotted	80850140	\$18
Weight, 2g, ASTM 6, Slotted	80850141	\$18
Weight, 5g, ASTM 6, Slotted	80850142	\$18
Weight, 10g, ASTM 6, Slotted	80850143	\$18
Weight, 20g, ASTM 6, Slotted	80850144	\$18
Weight, 50g, ASTM 6, Slotted	80850145	\$18
Weight, 100g, ASTM 6, Slotted	80850146	\$19
Weight, 200g, ASTM 6, Slotted	80850147	\$23
Weight, 500g, ASTM 6, Slotted	80850148	\$41
Weight, 50g, ASTM 6, Hanger	80850149	\$23





THE GUSTAV OHAUS AWARD

40 Years of recognizing science teacher excellence!

The Gustav Ohaus Award is designed to recognize innovations with the potential to improve science teaching, with an emphasis on measurement activities, at the primary, secondary and college levels. The winner is awarded a trip to the NSTA National Convention, a cash prize of \$1500, a personalized Gustav Ohaus award plus other benefits. The winner's school will receive Ohaus product (up to \$1000) and a school plaque. The award will be presented at the National Science Teachers Association's National Convention during an all expense paid dinner with representatives from OHAUS Corporation.

For more information and an application visit www.ohaus.com and follow the links from Markets/Education World/Gustav Ohaus Award.

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