

Taking Science from Experiment to Experience



Designed Specifically for New York

BOCES 4 Science is a premier science curriculum provider in New York that offers:

- rigorous, standards-aligned materials,
- teacher and student resources,
- interactive science experiences and
- virtual and in-person training opportunities.

Efficiency from Expertise

BOCES 4 Science kits minimize educators' burdens by researching, vetting, sourcing and preparing comprehensive science curriculum materials, supplies and supporting resources.

State Aid Eligible

Districts receive an average 75% return through BOCES state aid, providing high-quality curriculum and supplies at a fraction of the cost.

Inside a BOCES 4 Science Kit

Opening a BOCES 4 Science kit unleashes authentic, interactive science experiences for students! High-quality materials for engaging lessons will be at your fingertips with minimal need for additional items.

Vetted by NY Educators and Students

BOCES 4 Science kits are in nearly 150 districts across New York.

Data-Proven Results

Thanks to rigorous alignment to the New York State Science Learning Standards (NYSSLS), districts that implement BOCES 4 Science kits in fidelity have shown to have higher results on state assessments.

Check out the data at [boces4science.org/results](https://www.boces4science.org/results)

★ BUNDLE AND SAVE! ★ Grade-Level Suites

Districts can save up to 10% by purchasing a grade-level suite that includes each of the kits. More science, less money! Check out the order form on page 7 to see the savings.

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BOCES 4 Science Curriculum Kits

For more than 50 years, science education experts in Rochester, NY have developed engaging, hands-on science experiences and curriculum aligned specifically to New York State Education Department standards. From its start as the Elementary Science Program to the current

configuration as a four-BOCES collaboration, BOCES 4 Science is dedicated to supporting educators across the state as they work diligently to enrich the science knowledge of the next generation. The grade-level kits are known statewide for their reliability, quality and value.

KINDERGARTEN KITS



Pushes and Pulls

Playing with toys is a fun way for the youngest scientists to explore the forces of pushes and pulls. Students are challenged with describing the motion of objects and how forces affect them during a visit to the playground. They will experiment with how tracks at different heights change the distance cars travel and will enjoy the interactions in a lively kickball game.

6 weeks 12 sessions Forces and Interactions



Weather for Kindergarten

Using weather tools and looking at patterns, students will learn about local weather, seasons and how the sun impacts Earth's surfaces. Students will begin to understand how forecasts help people prepare and respond to severe weather events. Using what they've learned, students will design solutions to try and keep playgrounds cool during hot, sunny conditions.

17 weeks 16-18+ sessions Weather and Climate; Matter and Its Interactions



Worm Scouts

A rainy day leads to piles of worms that are evenly spaced along the center of a road. Relying on natural curiosity and science practices, students investigate the phenomenon while observing a classroom compost bin of red worms. Guided by fictional character Scout the Worm, students examine the interdependent relationships within the worms' ecosystem.

9 weeks 18 sessions Interdependent Relationships in Ecosystems: Animals, Plants and Their Environment

KINDERGARTEN SUGGESTED PATHWAYS

A Pushes and Pulls → Worm Scouts → Weather for Kindergarten

B Weather for Kindergarten → Pushes and Pulls → Worm Scouts

For detailed rationale about the kindergarten suggested pathways, visit [boces4science.org/k](https://www.boces4science.org/k)

GRADE 1 KITS

**A Bunny's Life**

Students act as scientists as they make observations of young rabbits and how they are similar and different from their parents. Students will study how animal behavior and the structure and function of body parts can help animals and offspring survive. These observations will lead students to design a solution to a human problem that mimics animal features or behaviors.

10 weeks 20 sessions *Structure, Function and Information Processing*

**Sending Messages with Light and Sound**

Opening a treasure box full of objects is the start of this kit in which students explore sound and light. They will learn about the connection between sound and vibrations. A shadow puppet play is used to explore light interactions with objects. Working as engineers, students design and build a device that can send a message using light, sound or both.

14 weeks 28 sessions *Waves: Light and Sound*

**Sky Patterns**

This kit is out of this world! Students are assigned missions as skywatchers, sunwatchers, moonwatchers and starwatchers. They build an instrument to track the sun without looking directly at it and learn why the sun sets. Further exploration includes seasonal patterns of daylight, phases of the moon and star patterns called constellations.

8 weeks 16 sessions *Space Systems: Patterns and Cycles*

GRADE 1 SUGGESTED PATHWAYS

- A** Sky Patterns → Sending Messages with Light and Sound → A Bunny's Life
B A Bunny's Life → Sending Messages with Light and Sound → Sky Patterns



For detailed rationale about the Grade 1 suggested pathways, visit boces4science.org/grade1

GRADE 2 KITS

**Earth's Features**

Students work to help Tina, a world traveler, decide where to live in the United States. Students will receive postcards from Tina's family members, describing different land and water features that can affect Earth's surfaces at different rates. A design task will ask students to create a solution that will slow or prevent wind or water hazards that can affect the landscape.

13 weeks 25 sessions *Earth's Systems: Processes that Shape the Earth*

**Made of Matter**

Students explore matter, its properties and uses through Ada and her friends, who make instruments from trash. Students learn that matter has mass, takes up space and can be solid or liquid. Students classify matter, analyze data to find the best materials for specific purposes and investigate how heating and cooling cause changes.

8 weeks 12 sessions *Structure and Properties of Matter*

**Save the Bees!**

The buzz in this kit focuses on the environmental issue of declining bee populations. Dr. Seuss' book "The Lorax" kicks off learning followed by letters from the Lorax to encourage learning about plants, animals, their habitats and how they depend on each other. Students design a hand pollinator to do the work of bees and to save the many foods that require pollination.

12 weeks 35 sessions *Interdependent Relationships in Ecosystems*

GRADE 2 SUGGESTED PATHWAYS

- A** Earth's Features → Made of Matter → Save the Bees!
B Save the Bees! → Earth's Features → Made of Matter



For detailed rationale about the Grade 2 suggested pathways, visit boces4science.org/grade2

BOCES 4 Science Curriculum Kits Key Suggested Kit Length Instructional Sessions New York State Science Learning Standard Alignment

**Suggested Pathways Assist in Curriculum Planning**

BOCES 4 Science is often asked about the order in which to implement the kit curriculum. In order to assist district decisions surrounding curriculum planning, BOCES 4 Science teachers created suggested pathways.

Condensed versions of two pathways are listed under each grade level in this catalog. These recommendations are based on unit length and the typical school calendar.

In addition to the abridged version in this guide, detailed pathways and accompanying rationale are available on the BOCES 4 Science website, as noted under each grade level.

Whether you choose to follow a suggested pathway, use it as a reference or create your own science curriculum journey, BOCES 4 Science will be there each step of the way!

GRADE 3 KITS



Generations of Butterflies

Despite the long journey and its short lifespan, a special generation of monarch butterflies migrates to Mexico and doesn't return north. Students observe butterflies and radish plants through their life stages—birth, growth, reproduction and death—and study how inherited traits help organisms survive, find mates and reproduce.

9 weeks 24 sessions *Inheritance and Variations of Traits: Life Cycles and Traits*



Investigating Weather and Climate

Students dive into the world of weather, exploring the water cycle, weather-related hazards and how climates vary across different regions of the world. Together, students use weather tools to plan and carry out investigations, while gathering data and making observations. To wrap up, students create a presentation about the weather and climate of a global location.

13 weeks 25 sessions *Weather and Climate*



Invisible Forces

Tug of war contests, ramps with cars, pendulums, magnets and static electricity are used to explore contact and non-contact forces. Students focus on balanced and unbalanced forces to understand and predict future motion. As engineers, students design and build a Rube Goldberg device incorporating the invisible forces learned throughout the kit experiences.

7 weeks 20 sessions *Forces and Interactions*



Where are the Wolves?

The reintroduction of wolves to Yellowstone National Park changed its ecosystem; it's up to the students to find out how. They learn that wolves no longer live in New York and debate whether the species should return to Adirondack Park. Students study animal adaptations, group versus solitary behaviors and why certain organisms thrive in specific habitats.

9 weeks 25 sessions *Interdependent Relationships in Ecosystems*

GRADE 3 SUGGESTED PATHWAYS

- A** Investigating Weather and Climate → Where are the Wolves? → Invisible Forces → Generations of Butterflies
- B** Generations of Butterflies → Invisible Forces → Investigating Weather and Climate → Where are the Wolves?

For detailed rationale about the Grade 3 suggested pathways, visit boces4science.org/grade3

GRADE 4 KITS



A Walk in the Park

Students model how animals in a park process sensory information and react. Emphasis is placed on sight as students develop models to understand how animals, including humans, see when light reflected from objects enters their eyes. Students investigate how structures support the survival, growth and reproduction of plants in the park.

8 weeks 16 sessions *Structure, Function and Information Processing*



Earth Processes in New York State

Students investigate a mysterious bone found in local soil, sparking curiosity about its origins. They learn how rock formations and fossils show Earth's changing landscapes, analyze maps to uncover patterns and study weathering and erosion. Students are challenged to develop solutions that reduce the impact of Earth's natural processes on humans.

13 weeks 29 sessions *Earth's Systems: Processes that Shape the Earth*



Powering Thru the Fair

Students take a virtual field trip to the NYS Fair to investigate energy powering attractions. Following a map, they visit the roller coaster, ball toss and bumper cars while exploring speed, collisions and energy conversions. In the end, students design exhibits that propose eco-friendly improvements, with the fair offering entry tickets to winning exhibits.

8 weeks 16 sessions *Energy*



Riding the Waves of Information

Spring coils, spring toys and tubs of water are used to investigate wave properties of amplitude, wavelength and energy. Communication methods including Morse code and binary code are used to understand how information is transmitted using waves. As a final project, students solve puzzles that review this learning to unlock a lock box containing a surprise.

7 weeks 15 sessions *Waves and Information*

GRADE 4 SUGGESTED PATHWAYS

- A** Riding the Waves of Information → A Walk in the Park → Earth Processes in New York State → Powering Thru the Fair
- B** Earth Processes in New York State → Powering Thru the Fair → Riding the Waves of Information → A Walk in the Park

For detailed rationale about the Grade 4 suggested pathways, visit boces4science.org/grade4

GRADE 5 KITS



Deer, Deer Everywhere!

The phenomenon of deer overpopulation is used by students to explore matter and energy in organisms and ecosystems. Using their knowledge, students take on the role of New York State Department of Environmental Conservation researchers and are tasked with creating a public service announcement to raise awareness about this pressing issue.

8 weeks 15 sessions Matter and Energy in Organisms and Ecosystems



Earth and Space Explorers

Students become Earth and space explorers, but they learn their instructor is missing. Using clues and artifacts from the professor's lab, students are tasked with solving what happened. Students engage with questions related to the sun's brightness and gravity while analyzing data and patterns relating to shadows, day and night and seasonal changes in the night sky.

9 weeks 27 sessions Space Systems: Stars and the Solar System



Got Water?

The students are the next crop of interns at their local Got Water? facility. The Earth's systems are investigated as their first duty. Students explore and model interactions among Earth's atmosphere, biosphere, geosphere and hydrosphere. For their final assessment, students apply what they've learned to clean up a water source polluted with various contaminants.

7 weeks 14 sessions Earth's Systems



Toys Matter

Students are welcomed into Toys Matter, a bustling toy company where creativity meets science. They explore and investigate a wide variety of materials, uncovering their properties and potential uses. The knowledge builds towards the students using their curiosity and engineering skills to take on an exciting final challenge: build a better bouncy ball.

8 weeks 16 sessions Structure and Properties of Matter

GRADE 5 SUGGESTED PATHWAYS

- A** Got Water? → Toys Matter → Earth and Space Explorers → Deer, Deer Everywhere!
- B** Deer, Deer Everywhere! → Got Water? → Toys Matter → Earth and Space Explorers

For detailed rationale about the Grade 5 suggested pathways, visit boces4science.org/grade5

MS KIT



Waves and Electromagnetic Radiation

Students create and refine models showing how light travels and how it is reflected, absorbed or transmitted. They explore wave properties—frequency, wavelength and energy—by comparing light from a laser, flashlight and bulb. Students support the claim that digitized signals are more reliable for encoding and transmitting information than analog signals.

10 weeks 25 sessions Waves and Electromagnetic Radiation

BOCES 4 Science Curriculum Kits Key Suggested Kit Length Instructional Sessions New York State Science Learning Standard Alignment

Same Great Curriculum, Newly Streamlined Resources

BOCES 4 Science recently released curricular enhancements to amplify your teaching while staying aligned with state standards.

Unit Summary and Streamlining Guides

Simplify your science instruction with the tools that offer practical recommendations for combining lessons or using them as enrichment opportunities, ensuring efficient, high-engagement instruction that aligns seamlessly with NYSSLS. With strategies to save time and promote interdisciplinary connections, these guides help you meet standards while balancing other instructional demands.

Unit Management Guides

Stay organized and confident with guides that provide detailed insights into lesson phenomena, activities and preparation needs. These quick-reference tools outline each lesson's focus, highlight advanced setup requirements and ensure you're ready for authentic, hands-on learning. With these guides, teaching NYSSLS-aligned science units becomes a streamlined and engaging experience.

Unit 3-D Summative Assessments

Prepare your students for the science exams with assessments modeled after state tests. Designed to evaluate mastery of Performance Expectations, these assessments use storyline-based phenomena and scenarios to challenge students to apply their learning. Each assessment includes a comprehensive Rating Guide and 3-D Question Table, making it easier than ever to gauge progress and target instruction.

Unit Investigations-Style Lessons

Equip students for the NYS Elementary Level Science (ELS) Investigations with redesigned Grades 3-5 lessons. Written in the official ELS Investigations format, these lessons include teacher materials, student directions and answer packets. By mirroring the structure and look of state Investigations, these lessons build familiarity and confidence, ensuring students are well-prepared for future assessments.

BOCES 4 Science Kit Life Cycle



Order

Districts across New York place orders for the rigorous and comprehensive BOCES 4 Science curriculum kits



Pack

BOCES 4 Science packs each kit with high-quality materials and activities with minimal need for additional preparation



Ship

Kits are shipped in alignment with district requests, often leveraging suggested pathways and curriculum maps



Implement

Teachers engage students in hands-on, applied learning activities that are created specifically to meet state standards



Return

Remaining kit materials are packed by the district and shipped back to BOCES 4 Science



Refurbish

Kits are inventoried, refurbished and prepared for the next leasing cycle, reducing waste and maintaining quality

Kit Companion
Student Science Journals

BOCES 4 Science also offers kit companion student science journals. Curriculum developers recommend the student science journals to increase ease of implementation and further instructional impact. To allow districts the ability to customize journal quantities to meet their needs and reduce waste, student science journals are not included in the kit base cost.

Tip: Order 3-5 additional journals per classroom to allow for shifts in enrollment numbers.

Leasing BOCES 4 Science Kits

Kit and Journal Subtotal

1. Locate the BOCES 4 Science Kit Title(s) that you are ordering.
2. Enter the number of requested kits.
3. Multiply the quantity by the kit cost. Enter the amount in the Kit Subtotal box for that line.
4. Enter the requested quantity of kit companion student science journals in the box for that line.

5. Multiply the quantity by journal cost. Enter the total in the Journal Subtotal box for that line.
6. Add together the Kit Subtotal and the Journal Subtotal to get the Line Total (Kits + Journals).
7. Add together all of the Line Totals to get the Kit and Journal Subtotal.

Additional Charges

8. Districts that are not Monroe 2-Orleans, Monroe One, Genesee Valley or Wayne-Finger Lakes BOCES components: calculate administrative and shipping charges based on the Kit and Journal Subtotal, entering the value on the respective lines.

1 Kit Title (Grade Level)	2 Kit Quantity	Cost Per Kit	3 Kit Subtotal	4 Science Journal Quantity	Cost Per Journal	5 Journal Subtotal	6 Line Total (Kits + Journals)
Pushes and Pulls (K)	5	x \$267	\$1,335	72	x \$2.50	\$180	\$1,515
Weather for Kindergarten (K)	5	x \$399	\$1,995	72	x \$2.50	\$180	\$2,175
Kit and Journal Subtotal							7 \$3,690
Additional Charges for Non-Component Districts <i>(Districts outside Monroe 2-Orleans, Monroe One, Genesee Valley or Wayne-Finger Lakes BOCES)</i>		Administrative Charge		5.2% of subtotal		8 \$191.88	
		Initial and Return Shipping Charges		26% of subtotal		8 \$959.40	
Lease Order Total							9 \$4,841.28

Order Total

9. Add the Kit and Journal Subtotal with any additional charges from step 8, if applicable, to get the Order Total. This is a minimum financial commitment to BOCES 4 Science as stated in the Billing Policy below.

Kit Leasing Policies

Billing and District Financial Commitment

Districts will be billed at the minimum of the kit order total that is submitted to BOCES 4 Science on or after July 1. This includes costs of kits, student science journals, shipping and administrative fees.

Any adjustments above the initial total will be due upon scheduling via a modified service agreement or cross contract. Any adjustments below the initial total will not be refunded as the initial order dictates materials ordering and a financial cost to BOCES 4 Science.

Kit Assessment and Inventory

Districts are responsible for checking kit inventory and materials upon delivery. Any missing/damaged parts must be reported to BOCES 4 Science within two weeks of the delivery date.

Contact Us

BOCES 4 Science administrators are available to answer questions and discuss offerings.

BOCES 4 Science Director
Steven Montemaro
smontema@boces4science.org
585-617-2360

BOCES 4 Science Assistant Director
Lisa Zeznick
lzeznick@boces4science.org
585-617-2362

If you are looking for assistance with kit leasing, contact

BOCES 4 Science Administrative Assistant
Gina Vaccarella
gvaccare@boces4science.org
585-617-2363

Additionally, more information about BOCES 4 Science is available on the website 24/7 at boces4science.org.

2025-26 BOCES 4 Science Kit Lease Order Form

District _____

Address _____

City, State, Zip _____

Order Contact Name _____

Contact Title _____

Email _____

Affiliated BOCES _____

- Cross contracts must be submitted by districts outside Monroe 2-Orleans and Monroe One BOCES through the district business office.
- There are no additional fees (administrative or shipping) for Monroe 2-Orleans, Monroe One, Genesee Valley or Wayne-Finger Lakes BOCES districts.

Telephone _____

Fax _____

Kit Title (Grade Level)	Kit Quantity	Cost Per Kit	Kit Subtotal	Science Journal Quantity	Cost Per Journal	Journal Subtotal	Line Total (Kits + Journals)
Pushes and Pulls (K)		x \$267			x \$2.50		
Weather for Kindergarten (K)		x \$399			x \$2.50		
Worm Scouts (K)		x \$382			x \$2.50		
★ BUNDLE AND SAVE! ★ Kindergarten Suite		x \$945			x \$2.50		
A Bunny's Life (Gr. 1)		x \$376			x \$2.50		
Sending Messages with Light and Sound (Gr. 1)		x \$361			x \$2.50		
Sky Patterns (Gr. 1)		x \$346			x \$2.50		
★ BUNDLE AND SAVE! ★ Grade 1 Suite		x \$980			x \$2.50		
Earth's Features (Gr. 2)		x \$364			x \$2.50		
Made of Matter (Gr. 2)		x \$346			x \$2.50		
Save the Bees! (Gr. 2)		x \$417			x \$2.50		
★ BUNDLE AND SAVE! ★ Grade 2 Suite		x \$1,022			x \$2.50		
Generations of Butterflies (Gr. 3)		x \$346			x \$2.50		
Investigating Weather and Climate (Gr. 3)		x \$327			x \$2.50		
Invisible Forces (Gr. 3)		x \$346			x \$2.50		
Where are the Wolves? (Gr. 3)		x \$284			x \$2.50		
★ BUNDLE AND SAVE! ★ Grade 3 Suite		x \$1,175			x \$2.50		
A Walk in the Park (Gr. 4)		x \$346			x \$2.50		
Earth Processes in New York State (Gr. 4)		x \$370			x \$2.50		
Powering Thru the Fair (Gr. 4)		x \$346			x \$2.50		
Riding the Waves of Information (Gr. 4)		x \$323			x \$2.50		
★ BUNDLE AND SAVE! ★ Grade 4 Suite		x \$1,250			x \$2.50		
Deer, Deer Everywhere! (Gr. 5)		x \$519			x \$2.50		
Earth and Space Explorers (Gr. 5)		x \$346			x \$2.50		
Got Water? (Gr. 5)		x \$341			x \$2.50		
Toys Matter (Gr. 5)		x \$439			x \$2.50		
★ BUNDLE AND SAVE! ★ Grade 5 Suite		x \$1,490			x \$2.50		
Waves and Electromagnetic Radiation (MS)		x \$400			x \$2.50		
Kit and Journal Subtotal							

Additional Charges for Non-Component Districts <i>(Districts outside Monroe 2-Orleans, Monroe One, Genesee Valley or Wayne-Finger Lakes BOCES)</i>	Administrative Charge	5.2% of subtotal	
	Initial and Return Shipping Charges	26% of subtotal	
Lease Order Total			



Submit completed forms in one of three easy ways:



Mail

BOCES 4 Science
Attn: Gina Vaccarella
771 Elmgrove Road
RTP Building 2
Rochester, NY 14624



Fax

585-352-1157



Email

gvaccare@boces4science.org



Fillable order form PDF available at boces4science.org/order

NYSED-Aligned Investigations Supply Kits

New York State Investigations

Spring 2024 marked the debut of the updated New York State Elementary- and Intermediate-Level Science Tests. These tests are designed to measure students' understanding of science skills and concepts contained in the New York State Science Learning Standards (NYSSLS).

Prior to the written test, students are expected to participate in a series of Investigations. These hands-on, three-dimensional learning tasks are designed to be embedded into instruction and can be offered at any time in the school year.

Less Work for Educators Thanks to BOCES 4 Science

BOCES 4 Science Investigations Supply Kits are materials toolkits for educators administering Investigations at both the elementary and intermediate levels.

Each supply kit contains NYSED-specified materials or approved substitutes for the corresponding Investigation. These supply kits take the burden of sourcing materials off the plates of busy educators.

Teacher and student directions and answer packets will not be provided with the supply kits. To download the state-created resources, districts need to access the NYSED Application Business Portal.



Inside the Investigations Supply Kits



NYSED-aligned Investigations materials for

- 30 students
- One (1) teacher

Tip: You may request to purchase additional materials separately to meet your district's specific needs.



NYSED Investigations teacher and student directions

Directions are solely available directly from the state through the NYSED Application Business Portal.

ELEMENTARY-LEVEL INVESTIGATIONS SUPPLY KITS

BOCES 4 Science Investigations Supply Kits Key 🐸 New York State Science Learning Standard Alignment 🍷 BOCES 4 Science Kit Alignment

Circle of Life

- 🐸 *Inheritance and Variations of Traits: Life Cycles and Traits*
- 🍷 *Generations of Butterflies (Gr. 3); Deer, Deer Everywhere! (Gr. 5)*



Item	Per Kit
Envelopes labeled BULLFROG	30
Envelopes labeled BEAN PLANT	30
Envelopes labeled EASTERN BLUEBIRD	30

Cloud in a Bottle

- 🐸 *Weather and Climate*
- 🍷 *Investigating Weather and Climate (Gr. 3); Got Water? (Gr. 5)*



Item	Per Kit
1 liter bottle with temperature strip assembly	15
Insulated cups	35
50 mL graduated cylinder	15
Insulated containers	2
Boxes of matches	2
Blue permanent marker	1
Red permanent marker	1
Safety goggles	30
Pad of sticky notes	1
Roll of blue tape	1
2 liter or 1/2 gallon bottles	2
Package of paper towels	1
Safety goggles	30
Stopwatches	15

Light It Up

- 🐸 *Energy*
- 🍷 *Powering Thru the Fair (Gr. 4)*



Item	Per Kit
D cell batteries	30
Plastic battery holders	30
Connector wires with alligator clips	150
#48 bulbs	55
Mini-bulb holders	45
Electrical switches	15

What's in the Bag?

- 🐸 *Structure and Properties of Matter*
- 🍷 *Toys Matter (Gr. 5)*




Item	Per Kit
Zip bags	15
Alka Seltzer tablets	24
Small plastic Petri dish sets	15
100 mL graduated cylinder	15
Plastic cups	15
Pad of sticky notes	1
Roll of blue tape	1
2 liter or 1/2 gallon bottles	2
Package of paper towels	1
Safety goggles	30
Stopwatches	15

INTERMEDIATE-LEVEL INVESTIGATIONS SUPPLY KITS

BOCES 4 Science Investigations Supply Kits Key  New York State Science Learning Standard Alignment

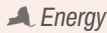
All Mixed Up

 Structure and Properties of Matter



Item	Per Kit
16 oz. clear container with lid labeled Mixture 1	1
16 oz. clear container with lid labeled Mixture 2	1
16 oz. clear container with lid labeled Mixture 3	1
16 oz. clear container with lid labeled Mixture 4	1
4 oz. clear container with lid labeled Mixture 1	4
4 oz. clear container with lid labeled Mixture 2	4
4 oz. clear container with lid labeled Mixture 3	4
4 oz. clear container with lid labeled Mixture 4	3
50 mL graduated cylinders	6
500 mL bottle of mineral oil	1
Large plastic Petri dish sets	45
Package of paper towels	1
Roll of blue tape	1
Plastic tweezers	10
Pipettes	10
Magnets	10
Plastic funnels	15
2" sieves	10
9 oz. plastic cups	10
30 cm metric rulers (approx. 12 inches)	10
Hand lenses	10
2 oz. dropper bottle	1
6 oz. dropper bottle	1

Cool It!

 Energy



Item	Per Kit
Insulated cups with lids	15
100 mL graduated cylinder	15
Metal washers	150
2 liter plastic bottles	15
Tongs	4
Package of paper towels	1

It's Alive?

 Structure, Function and Information Processing



Item	Per Kit
Microscope Slides	
Elodea	5
Euglena	5
Human Cheek Cell (squamous epithelial)	5
Human Hair	5
Human Nerve Cell (multipolar neuron)	5
Onion Bulb Epidermis (allium cepa)	5
Onion Root Tip (allium)	5
Paramecium	5
Sand	5
Thread	5
Yeast	5

Note: There is not a supply kit for intermediate Investigation titled How's the Weather Up There?



NYSED Resources

BOCES 4 Science is proud to relieve part of the lift as educators work diligently to meet New York State Education Department requirements and administer the science examinations and associated Investigations. For the most updated information about state assessments and Investigations, access the NYSED Application Business Portal.

NYSED Portal: portal.nysed.gov/abp Access and download teacher and student instructions for Investigations

Purchase Policies

Payment Prior to Fulfillment Required

Investigations Supply Kits will not be shipped until a completed financial commitment from the district is received. This includes purchase orders, cross contracts and approved service agreements. BOCES 4 Science is unable to accept checks or credit cards.

Supply Kit Assessment and Inventory

Districts are responsible for checking supply kit inventory and materials upon delivery. Any missing/damaged parts must be reported to BOCES 4 Science within two weeks of the delivery date.

Pricing Commitment

Investigations Supply Kits information and pricing in this catalog are valid through Dec. 31, 2025. Orders received on Jan. 1, 2026 and later will be subject to potential price increases based on raw material market pricing.

Contact Us

BOCES 4 Science administrators are available to answer questions and discuss offerings.

BOCES 4 Science Director
Steven Montemarano
smontema@boces4science.org
585-617-2360

BOCES 4 Science Assistant Director
Lisa Zeznick
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Additionally, more information about BOCES 4 Science is available on the website 24/7 at boces4science.org.

Purchasing Investigations Supply Kits

Investigations Supply Kit Subtotal

1. Locate the BOCES 4 Science Investigations Supply Kit Title(s) that you are ordering.
2. Enter the number of requested supply kits.
3. Multiply the quantity by the supply kit cost and enter in Line Total box.
4. Add all of the Line Totals to get the Investigations Supply Kit Subtotal.

Additional Charges

5. Districts that are not Monroe 2-Orleans, Monroe One, Genesee Valley or Wayne-Finger Lakes BOCES components: Calculate administrative and shipping charges based on the Investigations Supply Kit Subtotal, entering the calculations on the respective lines.

Investigations Supply Kit Title (Level)	Supply Kit Quantity	Cost Per Supply Kit	Line Total
Circle of Life (Elementary) 1	2 5	x \$108	3 \$540
Cloud in a Bottle (Elementary)	5	x \$298	\$1,490
Investigations Supply Kit Subtotal 4			\$2,030
Additional Charges for Non-Component Districts <i>(Districts outside Monroe 2-Orleans, Monroe One, Genesee Valley or Wayne-Finger Lakes BOCES)</i>	Administrative Charge	5.2% of subtotal	5 \$105.56
	Shipping Charge	13% of subtotal	\$527.80
Purchase Total 6			\$2,663.36

Purchase Total

6. Add the Investigations Supply Kit Subtotal with any additional charges from step 5, if applicable, to get the Purchase Total.

Note: Investigations Supply Kits are a purchase and are not eligible for BOCES state aid.

2025-26 Investigations Supply Kit Purchase Form

District _____

Address _____

City, State, Zip _____

Order Contact Name _____

Contact Title _____

Email _____

Affiliated BOCES _____

- Cross contracts must be submitted by districts outside Monroe 2-Orleans and Monroe One BOCES through the district business office.
- There are no additional fees (administrative or shipping) for Monroe 2-Orleans, Monroe One, Genesee Valley or Wayne-Finger Lakes BOCES districts.

Telephone _____

Fax _____

Investigations Supply Kit Title (Level)	Supply Kit Quantity	Cost Per Supply Kit	Line Total
Circle of Life (Elementary)		x \$108	
Cloud in a Bottle (Elementary)		x \$298	
Light It Up (Elementary)		x \$651	
What's in the Bag? (Elementary)		x \$236	
All Mixed Up (Intermediate)		x \$267	
Cool It! (Intermediate)		x \$246	
It's Alive? (Intermediate)		x \$523	
Investigations Supply Kit Subtotal			
Additional Charges for Non-Component Districts <i>(Districts outside Monroe 2-Orleans, Monroe One, Genesee Valley or Wayne-Finger Lakes BOCES)</i>	Administrative Charge	5.2% of subtotal	
	Shipping Charge	13% of subtotal	
Purchase Total			



Submit completed forms in one of three easy ways:



Mail

BOCES 4 Science
Attn: Gina Vaccarella
771 Elmgrove Road
RTP Building 2
Rochester, NY 14624



Fax

585-352-1157



Email

gvaccare@boces4science.org



Fillable purchase form PDF available at boces4science.org/order

2025-26 Investigations Material Request Form

Complete this form for pricing and quotes to supplement, replace and/or directly purchase Investigations materials outside of an Investigations Supply Kit.

Contact Name _____

District _____

ELEMENTARY-LEVEL INVESTIGATIONS MATERIALS

Circle of Life	
Item	Quantity Requested
Envelopes labeled BULLFROG	
Envelopes labeled BEAN PLANT	
Envelopes labeled EASTERN BLUEBIRD	
Cloud in a Bottle	
Item	Quantity Requested
1 liter bottle with temperature strip assembly	
Insulated cups	
50 mL graduated cylinder	
Insulated containers	
Boxes of matches	
Blue permanent marker	
Red permanent marker	
Safety goggles	
Light It Up	
Item	Quantity Requested
D cell batteries	
Plastic battery holders	
Connector wires with alligator clips	
#48 bulbs	
Mini-bulb holders	
Electrical switches	
What's in the Bag?	
Item	Quantity Requested
Zip bags	
Alka Seltzer tablets	
Small plastic Petri dish sets	
100 mL graduated cylinder	
Plastic cups	
Pad of sticky notes	
Roll of blue tape	
2 liter or 1/2 gallon bottles	
Package of paper towels	
Safety goggles	
Stopwatches	

INTERMEDIATE-LEVEL INVESTIGATIONS MATERIALS

All Mixed Up	
Item	Quantity Requested
16 oz. clear container with lid labeled Mixture 1	
16 oz. clear container with lid labeled Mixture 2	
16 oz. clear container with lid labeled Mixture 3	
16 oz. clear container with lid labeled Mixture 4	
4 oz. clear container with lid labeled Mixture 1	
4 oz. clear container with lid labeled Mixture 2	
4 oz. clear container with lid labeled Mixture 3	
4 oz. clear container with lid labeled Mixture 4	
50 mL graduated cylinders	
500 mL bottle of mineral oil	
Large plastic Petri dish sets	
Package of paper towels	
Roll of blue tape	
Plastic tweezers	
Pipettes	
Magnets	
Plastic funnels	
2" sieves	
9 oz. plastic cups	
30 cm metric rulers (approx. 12 inches)	
Hand lenses	
2 oz. dropper bottle	
6 oz. dropper bottle	
Cool It!	
Item	Quantity Requested
Insulated cups with lids	
100 mL graduated cylinder	
Metal washers	
2 liter plastic bottles	
Tongs	
Package of paper towels	
It's Alive?	
Item	Quantity Requested
Microscope slides - Elodea	
Microscope slides - Euglena	
Microscope slides - Human Cheek Cell (squamous epithelial)	
Microscope slides - Human Hair	
Microscope slides - Human Nerve Cell (multipolar neuron)	
Microscope slides - Onion Bulb Epidermis (allium cepa)	
Microscope slides - Onion Root Tip (allium)	
Microscope slides - Paramecium	
Microscope slides - Sand	
Microscope slides - Thread	
Microscope slides - Yeast	



Material purchase availability and quotes can be requested by emailing BOCES 4 Science Director Steven Montemarano at smontema@boces4science.org



Note: Requests are subject to material availability. Materials required for Investigations Supply Kits take priority over a la carte purchase requests.

BOCES 4 Science at a Glance



What is BOCES 4 Science?

A New York State science curriculum service developed by science education experts from four BOCES: Monroe 2-Orleans, Monroe One, Genesee Valley and Wayne-Finger Lakes.



Features of BOCES 4 Science Curriculum Kits



Curriculum designed specifically aligned to the rigorous New York state standards



Hand-on, engaging science experiences for students to apply learning and skills



High-quality activity materials with minimal need for additional items



Detailed teacher resources for ease of implementation



Virtual and in-person learning to further teacher and student experiences



Cost-saving options for districts through state aid and grade-level suites

Discover BOCES 4 Science's elementary and intermediate science kit offerings beginning on page 2.



NEW

2025-26 Update

★ **BUNDLE AND SAVE!** ★
Grade-Level Kit Suites

Check out the Kit Order Form on Page 7 to see how to save up to 10% on kits and get more science for less money!

Partners in Investigations Preparation



BOCES 4 Science is ready to be your partner in success with ready-to-go supply kits for NYSED Investigations—solving the mystery of sourcing supplies so you can focus on implementation.

Investigations insight begins on page 8.

Ways to Connect



BOCES 4 Science Website
boces4science.org



Professional Learning Opportunities
boces4science.org/PL



Science News 4 You Newsletter
boces4science.org/newsletter



Email
B4SHelpDesk@boces4science.org



Become a Science Expert with BOCES 4 Science



Curriculum Kit Workshops

Educators gain the tools and strategies to bring each kit's three-dimensional curriculum to life. These sessions focus on the instructional shifts of NYSSLS, helping educators confidently integrate hands-on, inquiry-based learning into their classrooms. Access to workshops and supporting materials at no additional cost are included in kit leases. Whether participating online or in person, individuals earn CTLE credits upon completion.



Investigations Workshops

Explore the NYS Science Investigations with expert guidance from science instructional specialists. These interactive workshops provide strategies for setup, implementation and classroom application at the elementary, intermediate and high school levels. Experience scientific discovery activities in person with other science professionals.



Additional Workshops

Engaging science workshops are available in various formats, including multi-day, one-day, half-day, in-person and online. Topics include state standards, curriculum and lesson writing, item analysis and administrator workshops. Additionally, custom workshops can be tailored for districts on conference or release days.



For a full list of BOCES 4 Science professional learning offerings and to see the current opportunities, visit

boces4science.org/PL

www.boces4science.org