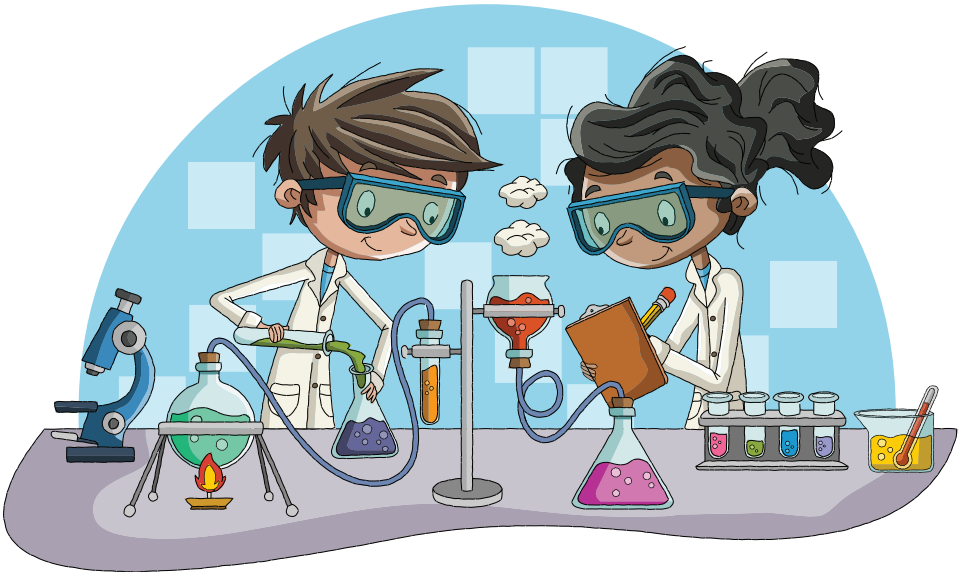
Regional Water Authority

Providing *FREE* Hands-On Education Programs Since 1990

Water Science Classroom Programs

NEW PROGRAMS & ACTIVITIES!



Discover the Science Behind Our Water

Where does our drinking water come from? What makes water clean or polluted? How do the things we do every day affect the water around us?

Our water education programs bring these questions to life through hands-on activities, demonstrations, experiments, and plenty of opportunities to have fun while learning.

Students don't just learn about water; they get to explore it and discover how science connects to the world around them.

Clean water is essential to our health, our communities, and our environment. Protecting it starts with understanding it. By helping students understand where our water comes from, how we protect it, and how human activities can affect water quality, we can inspire the next generation of environmental stewards.

Our goal is simple: to help people appreciate the importance of water and recognize that everyone has a role in protecting it.

Through engaging, interactive programs, we turn science into an experience and help create a future where clean water is valued, understood, and protected.

Regional **Water** Authority

Trusted Since 1849

CLASSROOM PROGRAMS

Invite the Regional Water Authority into your classroom for fun, learning, and science! Most programs are approximately one hour in length. All classroom programs are also available at the Whitney Water Center in Hamden.

DISTRIBUTION SOLUTION — GRADE K-2

How does water get to a house or a business? Students will find out by building a model of a distribution system.

WATER IN MY COMMUNITY - NEW ACTIVITIES! — GRADE K-2

How is water used in your community? In this program, students will see how important water is to them and the people in their community.

WHO SANK THE BOAT? - NEW PROGRAM! — GRADE K-2

Explore density and buoyancy with a range of fun activities including "Who Sank the Boat?" and "Will It Float?"

LIQUID ASSETS - NEW PROGRAM! — GRADE 1-3

Students will explore volume, demonstrate how water takes the shape of its container, and observe the shape of a small amount of water when there is no container.

ESTIMATION AND EXPERIMENTATION — GRADE 2 & UP

Students will make estimates and then conduct experiments to see if the estimates are accurate. Some of the estimates students will make include how many marbles will it take to make a cup of water overflow and how many counting bears it takes to sink a paper boat.

WATER WIZARDS - NEW PROGRAM! — GRADE 2 & UP

Students will investigate the unique properties of water including cohesion, adhesion, and surface tension through experiments including floating a paper clip and the amazing water race.

OOZING OOBLECK — GRADE 2 & UP

After reading Bartholomew and the Oobleck by Dr. Seuss, your students will explore the properties of different liquids and whether those properties change when the materials are combined to make oobleck.

THE WATER CYCLE — GRADE 3 & UP

Water moves all around the earth through an interconnected web. Students will learn about the different states of water and how water transitions from one part of the water cycle to another.

PROBLEM WITH POLLUTION — GRADE 3 & UP

Students will learn about different ways that pollution enters the environment and why it can be so hard to keep out of our waters.

WISE WATER WAYS — GRADE 3 & UP

Students will learn how much water a dripping faucet can waste every day and easy ways to conserve water.

TRUST THE TAP - NEW PROGRAM! — GRADE 4 & UP

Which water tastes best? Student will blind taste-test and make observations about tap water, distilled water, spring water, and bottled water to see which one they like best. Afterward, we'll discuss the properties that contribute to each sample's distinct taste and the benefits of drinking tap water.

OPERATION FILTRATION - NEW PROGRAM! — GRADE 4 & UP

Students will learn about the process water undergoes from the reservoir to their tap including flocculation, coagulation, and filtration. They will go through the process with a sample of water from a local reservoir and record their observations.

INVASION OF THE ALIENS — GRADE 4 & UP

What are invasive alien species, and why should we care about them? Students will learn about the problems that invasive, non-native species can cause.

MACROINVERTEBRATE MESSAGES — GRADE 4 & UP

Benthic macroinvertebrates are small critters that live on the bottom of a stream. Your students will find out how scientists use macroinvertebrates to assess the health and water quality of a stream.

WATERSHEDS — GRADE 6 & UP

Do your students think a watershed is a building to store water? In this class, they will learn about watersheds through hands-on activities and maps, and explore the effects our activities can have on our drinking water.

VISIT THE WHITNEY WATER CENTER

The following two programs are only offered at the Whitney Water Center in Hamden.

MAGIC OF MICROSCOPY — GRADE 4 & UP

What are some of the smallest things that live in the Mill River? Your students will learn the basic parts of a microscope and look at and identify some of the smallest plants and animals in the food chain. Based on their findings, they will try to determine if the water is healthy.

RETURNING RAINDROP — GRADE 4 & UP

Your students will explore the water cycle by building their own terrariums in clear two-liter soda bottles. You provide the bottles; we'll provide everything else. Students need prior knowledge of the water cycle.



LOAN BOXES

Enjoy the convenience of pickup and delivery of Water Science Loan Boxes to your school! Each one of our loan boxes covers a unique topic and contains everything you need for learning about water in your classroom.

Choose to do one activity as a supplement to your curriculum or do all of the activities and have a water-themed science week. Borrow a loan box and your students will learn science is FUN!

WATERWORKS — GRADE K - 2

Are you drinking the same water that fell as rain when dinosaurs walked the earth? Where does rain come from? Your students will learn the answers to these questions and more as they explore the water cycle.

OOZING OOBLECK — GRADE 2 & UP

After reading Bartholomew and the Oobleck by Dr. Seuss, your students will learn about the properties of different liquids and whether those properties change when the materials are combined to make oobleck.

WET HISTORY OF NEW HAVEN — GRADE 3 & UP

Why did the early colonists in south central Connecticut choose this area as a place to settle? What influence did access to and uses of water have on people? Using hands-on activities and historical photographs and documents, your students will learn the wet history of New Haven.

HABITATS OF LONG ISLAND SOUND — GRADE 3 & UP

Imagine if your home was covered with water twice a day or all the time! Students will learn about the unique habitats of Long Island Sound and the living things that make their homes there.

POLAR OPPOSITES — GRADE 4 & UP

What shape does a water drop have? Can water be stretched? Students will be amazed when they learn about the water molecule and surface tension.

DISCOVERING DENSITY — GRADE 6 & UP

Explore the principles of density and buoyancy with a range of fun, mentally challenging activities.

REGISTERING FOR A PROGRAM

To register for any of our education programs, or if you would like more information, please send us an email at education@rwater.com. You can also call the Whitney Water Center at 203-777-1142.

All programs are approximately one hour in length. Many classes are suitable for a wide range of grades. Our staff will present an age-appropriate version of the program for your students.

Maximum class size is 30 students.

You can reserve a Water Science Loan Box by e-mailing education@rwater.com or calling 203-777-1142.

All programs and loan boxes are FREE of charge for students from Ansonia, Beacon Falls, Bethany, Branford, Cheshire, Derby, East Haven, Guilford, Hamden, Killingworth, Madison, Milford, New Haven, North Branford, North Haven, Orange, Prospect, Regional District #16, Regional District #17, Seymour, West Haven and Woodbridge.






Regional Water Authority

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