



# High Touch High Tech®

Science Experiences That Come To You™

## Enrichment Programming Catalog

### Water Works Series

Calling all Hydro Heroes! Dive into the magical world of water, from raging storms to gentle rivers. Discover how water shapes our world and why it's so essential to life.

- **EP-CHEM-206; Soak it to Me**  
Water likes to stick together! Race a water droplet, separate color, and create a bubble snake.
- **EP-CHEM-207; The Deal with Density**  
Discover how water is used to measure and separate things based on density. Float balloons and shake marbles to the surface.
- **EP-CHEM-208; Gushy Mushy Slippery**  
Reaction fun time with water! Separate liquids with centrifugal force, create an explosive reaction, and make oobleck.
- **EP-ERTS-209; H2O to Go**  
Where is water on earth and how does it travel? Learn about rainfall in different biomes, glacier erosions, and the importance of watersheds.
- **EP-ERTS-210; Storm Chasers**  
Discover where storms come from and how scientists measure them. Learn about storm fronts and hurricanes.
- **EP-EPHY-211; Disaster Disaster!**  
Become an engineer and build structures to overcome a water obstacle. Build houses that can survive hurricanes and tsunamis, and build a raft that can float on the river.
- **EP-ECOL-212; What's in the Water**  
Shrink down and learn about microorganisms in bodies of water. Observe plankton and make plankton prints, learn about bacteria in hot springs.
- **EP-ECOL-213; Beneath the Flow**  
Explore a river ecosystem and what makes it special. Learn about frogs and bug life cycles and how they are connected to the river.
- **EP-ECOL-214; Ocean Odyssey**  
Explore life in the ocean and the intertidal zone. Learn about how sound travels via echolocation, tidepools, and seaweed.



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- **EP-CHEM-215; Salty Science**  
Explore the difference between salty and fresh water and how it affects the properties of water. Grow gummi bears and melt glaciers.
- **EP-ERTS-216; Erosion Expedition**  
Shape the world with water! Learn about sea levels rising, how erosion works, and how water can change the shape of a river.
- **EP-EPHY-217; Water Works**  
Water is so powerful! Learn about geysers, and how humans harness the power of water to create energy.
- **EP-GPHY-218; Surface Circus**  
Use the properties of water to perform amazing science tricks!
- **EP-GPHY-219; Wet and Wild Water**  
Have a blast with water! Change the shape of an object, manipulate sound waves, and propel a boat with water.
- **EP-GPHY-220; H2O Enigma**  
Explore mysteries with water science illusions!



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## Engineering Adventure Series

Gear up for an epic engineering expedition! Build incredible machines, program amazing robots, and soar through the skies of aviation. Uncover the forces that shape our world and let your imagination take flight!

- **EP-GPHY-221; Flying High**  
Fly high as you learn about how planes fly. Build and launch a spinning helicopter and paper airplane.
- **EP-GPHY-222; Air with Flair**  
Explore the physics and features of air. Does air take up space, have weight?
- **EP-GPHY-223; Up Up and Away**  
Discover air pressure and how it helps with flight. Learn all about the Bernoulli Principle and build an oddly shaped flyer.
- **EP-EPHY-224; Marvelous Machines**  
Explore the physics of simple machines! Experiment with wedges, levers, and build a catapult.
- **EP-EPHY-225; Design Time**  
Become an engineer and build a variety of bridges! Learn about truss bridges, suspension bridges, and a special type of bridge called an eco bridge.
- **EP-GPHY-226; Aviation Antics**  
Blast off and learn about aviation! Explore the physics of flight as you build a special paper airplane, bubbly rocket, and a hovering disc.
- **EP-EPHY-227; iCool**  
Dive into robotics and computer science! Learn about how computers speak a different language and how scientists can program robots.
- **EP-EPHY-228; Can't Stop the Bot**  
This program is all about robots! Learn about robots in space, build an art bot, and engineer your own robot prototype.
- **EP-EPHY-229; The Inventor's Closet**  
Enter the world of inventors! Learn how inventors engineered solutions to problems using science. Create your own invention.
- **EP-GPHY-230; Inertia Imagination**  
Explore the physics of inertia! Learn how forces can influence the movement of objects as you stack objects and build towers.
- **EP-GPHY-231; Newton's Day at the Park**  
Create an amusement park with the help of Newton's Laws of Motion! Learn about incline planes and build your own roller coaster.
- **EP-GPHY-232; Feel the Force**  
Explore the push and pull of magnets! Make a magnet float, lift objects with a magnet, and experiment with a pendulum.



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- **EP-GPHY-233; Sounds Like Fun**  
Learn about sound waves and how they travel through the air. Discover how you use your ears to hear sounds.
- **EP-GPHY-234; Good Vibrations**  
Feel the vibrations as you learn about musical instruments! Create a string instrument, a roaring cup, and explore how percussion instruments sound.
- **EP-GPHY-235; Invisible Forces**  
Explore invisible forces. Learn about static electricity, electrolysis, and gravity.



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## All Systems Go Series

Become a Junior Doctor in this adventure through the human body! Explore the heart, lungs, brain, and more! Uncover the secrets of genetics and what makes you, you!

- **EP-HBIO-191; Doctor Scientist**  
Get to know your body! Learn some basic anatomy and get a kick out of reflexes.
- **EP-HBIO-192; Heart of Discovery**  
All about your heart! Listen to your heart beat, race your heart, and learn what is in a drop of blood.
- **EP-HBIO-193; Respiration Station**  
Take a breath and learn about your lungs! Discover how your body absorbs oxygen, build lungs, and use your lungs to make music.
- **EP-HBIO-194; Nerve Nexus**  
Discover how your body interprets sensory input. Learn all about neurons and how they communicate.
- **EP-HBIO-195; Olfactory Fun Factory**  
How does your brain explore the world around it via your senses? Learn about your senses of taste, smell, and touch.
- **EP-HBIO-196; Brain Buzz**  
Get the buzz on your brain! Learn about the blood brain barrier, brain anatomy, and how information travels through the body.
- **EP-HBIO-197; Unique Me**  
Learn all about how your DNA makes you unique. Learn about heritable traits, and the language and shape of DNA.
- **EP-HBIO-198; Forensic Fun**  
Become a Junior Detective and use your observation skills to solve a mystery. Learn how to take fingerprints and extract DNA from a strawberry.
- **EP-HBIO-199; Let's See**  
Explore your eyesight! Learn about how your vision, how to make observations, and reveal mystery messages.
- **EP-HBIO-200; Moovin and Groovin**  
Get moving with your muscles! Learn about how your body moves, build a finger joint, and experiment with pulleys.
- **EP-HBIO-201; No Bones About It**  
Explore your skeletal system. Learn about the sizes of different bones, build a spine, and learn about collagen.
- **EP-HBIO-202; Muscle Mechanics**  
What makes your muscles so special? Explore how muscle cells work together to make you strong!



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- **EP-HBIO-203; Globbs Goo and Guts**  
Dig into digestion! Learn about what happens inside your stomach, how long your small intestines are, and how the kidney helps you survive.
- **EP-HBIO-204; Buddy Bacteria**  
Get small and learn about bacteria and fungi. What role do these small organisms have in the human body?
- **EP-HBIO-205; Miley Virus**  
Go viral and learn about the immune system! Build a virus and learn how they travel. Learn about how your immune system starts in your bones.



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## Power of Light Series

Discover the science of light. Explore how light bends, changes, and forms rainbows. Learn about photosynthesis and how plants harness the power of the sun.

- 1. EP-GPHY-116; Rainbow Relays**  
Learn about ROY G BIV and how colors work! Create bubbles using prisms and bubbles.
- 2. EP-GPHY-117; Light Fever**  
Discover how light works. Split it apart, Shine it down tunnels, and spin it in a special illusion experiment.
- 3. EP-SPAC-118; Out of Sight Light**  
Learn about the sun and its out of sight light. Explore eclipses, sundials, and UV light.
- 4. EP-HBIO-188; Eye Eye Captain**  
Discover you eyes and how they work! Learn about how your eye sees images and build your own eye model.
- 5. EP-GPHY-190; Color Chaos**  
Have chaotic fun with colors! Mix colors, learn about lasers and make an image disappear.
- 6. EP-GPHY-189; Mystery Science**  
This program is full of mysterious illusions! Watch objects bend switch directions and change colors.
- 7. EP-GPHY-119; Edison's Workshop**  
Explore electricity and how it works. Complete circuits with batteries and create an electromagnet.
- 8. EP-GPHY-120; Get Wired**  
Get wired with circuits! Learn about how electricity travels in a path. Create your own circuit and build a small robot.
- 9. EP-GPHY-121; Fantastic Static**  
Explore static electricity and how it charges up! Build static with a balloon, a wand, and a special generator.
- 10. EP-BIOL-182; Smarty Plants**  
Learn about plants and how they transport water through their bodies. Explore diffusion and dissect celery.
- 11. EP-BIOL-183; Get Growing**  
Explore plant adaptations and how plant survive in tough environments. Bring a plant back to life, find north, and dissect leaves.
- 12. EP-BIOL-184; ExSEEDingly Cool**



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Discover a plant's lifecycle and learn about seeds. Dissect a seed, sprout seeds, and make a seed copter.

**13. EP-BIOL-185; Leaf Me Alone**

Learn all about leaves and how they work. Discover capillary action and chlorophyll. Make an imprint of a fern.

**14. EP-BIOL-186; Plant Art**

Create beautiful art with plants! Make your own paint, create a coral reef, and learn about tree bark.

**15. EP-BIOL-187; Ocean Plants**

Explore plants in the ocean. Learn all about algae and make polymer seaweed worms.





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## Safari Series

Travel the world on safari and learn about different animals. Discover where they live, what they eat, and their special adaptations.

- 1. EP-ECOL-131; Tree Tops**  
Learn about life in the trees. Discover tree adaptations and what arboreal animals eat.
- 2. EP-ECOL-132; Arboreal Animals**  
Explore the adaptations of arboreal animals. Glide through the trees and balance on the branches.
- 3. EP-ECOL-133; My Tree My Home**  
What about life inside a tree? Learn about the tiny organisms that break down fallen trees and owls that build their nest inside a trunk.
- 4. EP-BIOL-176; Primitive Primates**  
Discover the life history of primates. Learn about the different types and how they compare to humans.
- 5. EP-BIOL-177; Primate Senses**  
Explore primate senses and how they are similar to humans. Discover how chimps communicate.
- 6. EP-ECOL-134; Rainforest Safari**  
Go on a rainforest safari! Learn what makes this ecosystem special and how orangutans move through the trees.
- 7. EP-ECOL-135; Invasive Species**  
Explore the mystery of species who aren't where they belong. Learn how they got there and what happens to native species.
- 8. EP-ECOL-136; Give Us a Sign**  
Learn what signs animals leave behind. Look at animal tracks and discover camouflage.
- 9. EP-ECOL-178; Spooky Safari**  
Are there spooky species? Learn about spiders, bats and octopus blood.
- 10. EP-BIOL-179; Bee Good**  
Discover what makes bees special. Learn about how they see the world and their special dance moves.
- 11. EP-BIOL-180; Mission Pollination**  
Learn about pollination and where pollen comes from. Discover pollinators other than bees and make seed bombs.
- 12. EP-BIOL-181; Flower Power**  
Explore what makes flowers special. Dissect a plant and build a bird feeder.
- 13. EP-ECOL-137; Birds of a Feather**  
Discover how birds travel the globe. Learn about migration and the different types of beak adaptations.



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**14. EP-ECOL-138; Art Safari**

Create beautiful art featuring different animals and phenomena from around the globe.

**15. EP-ECOL-139; Rivers of the World**

Explore how rivers shape the world. Learn about animals that lay eggs near the river, and build your own river raft.



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## Earthscapades Series

Learn about our amazing Earth! Discover types of rocks and minerals, water wonders, and storms. Pan for gems and keep what you find!

- 1. EP-ERTS-140; What's Inside Earth?**  
Journey to the center of the Earth! Learn about the many layers, tectonic plates and make a delicious edible rock.
- 2. EP-ERTS-141; Earth's Seasons**  
Discover the special relationship between the Earth and Sun. Explore the four seasons and why trees lose their leaves.
- 3. EP-ERTS-142; Earth's Atmosphere**  
Explore how our atmosphere protects the Earth. Discover the strength of air and how it influences weather.
- 4. EP-ERTS-143; Soil Science**  
Dig in the dirt and discover what makes soil special. Mix up some soil and hold a real earthworm!
- 5. EP-ERTS-144; Let's Rock**  
Become a geologist and learn about rocks and strata layers. Make stalagmites and create a volcanic eruption.
- 6. EP-ERTS-145; Dig It**  
Learn about minerals and gems. Pan for gems and test them like a real geologist. You get to keep what you find!
- 7. EP-ECOL-125; Boreal Forests**  
Explore the biggest biome on the planet. Learn about coniferous trees and what makes them special.
- 8. EP-ECOL-126; Desert Survival**  
Would you survive in the desert? Learn about desert adaptations and how the Grand Canyon was formed.
- 9. EP-ECOL-127; Life in the Forest**  
Explore the temperate forest biome. Learn about animal coverings, build food chains, and build an eco bridge.
- 10. EP-ERTS-146; Weather Wizards**  
Learn about weather and precipitation. Make a thunder storm in a jar and touch lightning.
- 11. EP-ERTS-147; Winds of Change**  
Discover the power of the wind! Build an anemometer and create a tornado.
- 12. EP-ERTS-148; Weather or Not**  
Become a meteorologist and experiment with thermometers. Explore hurricanes and touch a cloud.
- 13. EP-ECOL-128; Cycle Babble**



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Go on a journey with the water cycle. Explore how water travels and make a terrarium.

**14. EP-ECOL-129; Planet Protectors**

Learn about the human effect on the planet. Explore rising sea levels, pollution, and make recycled paper.

**15. EP-ECOL-130; Where is Your Home?**

Where do organisms live? Explore bee hives, bird nests, and human structures.



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## Outta This World Series

Blast off into space! Discover what it takes for humans to survive in space. Explore the sun, moon, planets, and stars. Explode a supernova, play with ferrofluid, and make your own Alpha Centauri Goo!

- 1. EP-SPAC-101; Be an Astronaut**  
Are you ready to be an astronaut? Learn about gravity in space and complete your astronaut training!
- 2. EP-SPAC-102; Space... The Final Frontier**  
Blast off into space. Learn about gravity on the moon, imagine what it is like to wear a space suit, and launch a rocket!
- 3. EP-SPAC-103; Flight Command**  
Build your own space shuttle and enjoy a yummy astronaut treat!
- 4. EP-SPAC-104; Zoom to the Moon**  
Learn all about the moon. Discover why the moon has phases and craters. Learn about the different types of eclipses.
- 5. EP-SPAC-105; Staggering Through the Stars**  
Explore the lifecycle of a star from nebula to super nova!
- 6. EP-SPAC-106; Mineral Magic**  
Discover how elements came from space and learn about different minerals. Mine your own asteroid and take home a treasure!
- 7. EP-SPAC-107; Life on Mars**  
Is life possible on other planets? Learn about the different planets in our solar system and build your own Mars lander.
- 8. EP-SPAC-108; Super Sun**  
Learn all about our sun! How did our solar system begin? Explore UV rays and make your own solar artwork!
- 9. EP-SPAC-109; Space Crystals**  
Explore crystalline structures and which minerals are found on other planets. Create your own crystal planet!
- 10. EP-SPAC-110; Blast Off**  
Discover the physics of rockets and build your own mini rocket.
- 11. EP-SPAC-111; Space Travel**  
Explore what it takes to travel in space. Use a gyroscope and engineer the best aircraft!
- 12. EP-SPAC-112; Life in Space**  
What is life like in space? Build your own space station, plant a space terrarium, and launch a rocket.
- 13. EP-GPHY-113; Gravity Games**  
Explore how gravity works through a variety of experiments.



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## **14. EP-GPHY-114; Forces**

Explore invisible forces like inertia. Discover how the Van de Graaf generator works!

## **15. EP-GPHY-115; Magnet Makers**

All about magnetism! Discover the push and pull of magnets as you race special cars.



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## Reaction Attraction Series

Become a chemist! Discover what matter is made of and how it reacts to physical and chemical changes. Learn about elements and the periodic table. Do real chemical reactions!

1. **EP-CHEM-149; On One Condition**  
Change the conditions and explore matter in this fun chemistry program!
2. **EP-CHEM-150; Crazy Chemical Concoctions**  
Delve into the world of chemistry and make fun and colorful mixtures. Explore a special substance called Oobleck!
3. **EP-CHEM-151; Bubbly-ology**  
Learn the science behind bubbles and have fun, creating bubbles, making rainbows, and building bubble cities.
4. **EP-CHEM-152; What's the Matter**  
Explore the properties of matter and have a molecule race!
5. **EP-CHEM-153; Drip Drop**  
Discover the properties of water and how it is different from other liquids. Create a layered density bottle.
6. **EP-CHEM-154; Mixed Up Molecule**  
Explore how molecules interact physically and chemically. Make fizzy molecules and underwater fireworks!
7. **EP-CHEM-155; Lab 101**  
Come to the lab and learn about pH and chromatography. Make your own special slime.
8. **EP-CHEM-156; Edible Science**  
Learn how yummy science can be! Make lemonade, gummies, and homemade ice cream.
9. **EP-CHEM-157; Wacky Water Workshop**  
Dive into the world of water and learn about its properties. Explore cohesion and centrifugal force.
10. **EP-CHEM-158; Periodic Play**  
Explore the periodic table and learn about elements. Create your own elemental piece of art!
11. **EP-CHEM-159; Atomic Adventure**  
Discover the world of the atom! Break molecular bonds and make your own color-changing slime.
12. **EP-CHEM-160; Our Friend Carbon**  
Learn about how carbon is an essential element. Build hydrocarbons, construct a special filter, and create art all with carbon.



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**13. EP-CHEM-161; Polymer Parade**

Discover polymers and explore their properties. Make your own space mud polymer!

**14. EP-CHEM-162; Gas Blast**

All about gas! Discover the properties of gas and create your own gas. Have a race using gas!

**15. EP-CHEM-163; Bubble Blast**

Have a blast with bubbles! Explore the science of cohesion and bubbles and make your own bubble blowers.





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## Oceanographer Series

Sail the seas and become an oceanographer! Learn about the main predators in the ocean and explore different aquatic habitats. Engineer your own boat and journey to the arctic and the bottom of the ocean.

- 1. EP-BIOL-164; Apex Predators**  
Discover the top predators of the Arctic! Explore a food web and learn about polar bears and their connection to the ocean.
- 2. EP-BIOL-165; Down Deep**  
Explore the world of whales! Learn how they communicate, eat, and how they dive deep into the ocean.
- 3. EP-BIOL-166; Water Water Everywhere**  
What is in ocean water? Discover the properties of water and what makes salt water different. Includes a microscope discovery activity.
- 4. EP-BIOL-167; Shark Science**  
All about sharks! Explore different types of species and how they float compared to other fish.
- 5. EP-BIOL-168; Shark Senses**  
Discover the special senses that sharks have. Explore how their sense of smell and touch help them hunt their prey.
- 6. EP-ECOL-169; The Ocean is My Home**  
Explore where sharks and other marine animals live. Discover how they use camouflage to hide from prey and find your own shark tooth to take home.
- 7. EP-BIOL-170; Waves and Water**  
Discover the impact that ocean waves have on the coast. Explore what happens when a river meets the sea and make your own ocean wave bottle.
- 8. EP-ECOL-171; Estuary Science**  
Learn about how estuaries are important to oceans. Discover how they are connected to the lifecycle of many marine organisms and what adaptations they have.
- 9. EP-ECOL-172; Go With the Flow**  
Discover how the ocean impacts the coast via erosion. Make your own dunes and shell imprints.
- 10. EP-EPHY-122; Sailing Science**  
Discover the science of boats and how they stay afloat. Learn about the Coriolis effect and how it relates to sailing.
- 11. EP-EPHY-123; Ocean Navigation**  
Explore how humans navigate the ocean. Learn about compasses and constellations.



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**12. EP-EPHY-124; Float Your Boat**

Build your own sailboat and test it!

**13. EP-BIOL-173; Survive and Thrive**

Discover what adaptations are necessary to survive in Antarctica. Learn about penguin adaptations and build your own igloo.

**14. EP-BIOL-174; Extreme Adaptations**

Explore the adaptations necessary to survive in the arctic and deep ocean. Go from cold to hot as you learn about underwater volcano vents.

**15. EP-BIOL-175; Sea Ya Later**

Explore some of the unique relationships found in the ocean. Learn about photosynthesis and symbiotic relationships in coral reefs. Make your own glowing jellyfish!