



# High Touch High Tech®

Science Experiences That Come To You™

## LIST OF PRESCHOOL PROGRAMS

### **BABY ANIMAL GAMES ©**

Find out all about animals as we use bean bag babies to discover what makes each animal so special. Learn about animal protection, homes, body coverings and more.

### **BATS-NIGHT FLIERS ©**

Students will discover all about bats. Students will put on special nylons on their fingers to further understand how their wings help them to fly. Students will then participate in 2 Echolocation experiments; the first of which will use slinky's to demonstrate sound wave action. The second experiment will utilize mirrors and flashlights to show echolocation.

### **BUBBLE BLAST ©**

Students will discover the awesome world of bubbles. They will make their very own bubble blowers to keep. Students will build a bubble city. Students will discover what surfaces bubbles will stick to and which ones will pop bubbles. It is a real bubble blast!

### **CAN YOU SENSE IT? ©**

Learn all about our senses. Discover how sounds travel and how we can use our sense of touch when we can't see something. We play a feely bag game too!

### **CHEMISTRY CAPERS ©**

This program is a great introduction into the scientific realm of chemistry. Your little students will become chemists by learning how to safely examine different chemicals with their senses. Then they will learn how to test the chemicals in a colorful way to determine whether each chemical is an acid or a base.

### **CHEM POP ©**

Your students will have a great time becoming chemists and studying some crazy chemical reactions. They'll make bubbles that will float on carbon dioxide, unlock the mystery of how fire extinguishers work, and then fill a balloon using a chemical reaction. It's very cool!



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## **CHEMYSTERY ©**

This High Touch- High Tech® program is all about the wonderful world of chemicals! Young chemists will discover what happens when they mix certain chemicals together. Children will make colors before their eyes and even make their own Silly Putty to take home and bounce!

## **EARTHSCAPADES ©**

Your students will learn about our living planet earth and how we are able to survive on this unique planet. First, your kids will do a cool experiment that will bring water out of an unsuspecting object. Then, they will examine carbon dioxide in a cool experiment that will make bubbles float in mid air. It's awesome! They will finish the program by learning about and erupting a volcano! They will love it.

## **EDIBLE SCIENCE ©**

Every experiment you can eat! We make butter, we make gummy candy, and we even have our very own Smelling Bee!

## **EGGSPERIMENTS ©**

Your students will be really eggsited to do these cool experiments. They won't believe the awesome power of air and suction. Then they will perform an eggcellent eggspexperiment where they will fit an egg into a bottle without breaking it by simply changing the temperature of the air in the bottle. Your kids will love the last eggspexperiment because they will make an egg rise to the surface of water from the bottom of a cup simply by changing the chemical makeup of the water. Only science can explain how.

## **EXSEEDINGLY COOL ©**

Johnny appleseed will be proud of your students for doing this program because they will learn all about seeds and their cool capabilities. First they'll have fun learning the amazing ways that seeds travel great distances. Then, they'll learn how a seed can defend itself and it's not because it knows karate. Finally, they will get to see them in action as they plant their own seed to take home!

## **FANTASTIC STATIC ©**

Today's High Touch-High Tech® program is all about Static electricity. Young scientists experience static like never before! Children investigate how this special type of electricity can lift objects right before their very eyes.



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## **FIZZ FUN ©**

Today's High Touch – High Tech® program is all about chemicals that fizz and foam! Young scientists will learn about what happens when you mix chemicals together.

## **FLIGHT IF WE MIGHT ©**

Your students will love learning about the science behind how different things fly. First, they will do a neat experiment to see how blimps fly, by making one themselves. Then, they will get to see real jet propulsion in action! Your students may want to become pilots after this program.

## **FOOD FOR THOUGHT ©**

Students learn all about food. We discover how and what we eat turns to energy. We performed a fat test and learn how to make healthy choices.

## **FORCES ©**

You won't have to force your students to have fun in this program about forces. They'll have plenty of fun trying to test their brut strength against...air? That's right! They won't believe the power of air pressure and then they really won't believe the crazy forces behind the old pull the table cloth off the table trick.

## **FOSSIL FUN ©**

Students always love the world of dinosaurs which is why they love this program. Your student will get up close and personal with the fossils the dinosaurs left behind. First the kids will study fossilized teeth and then they get to make their own fossil to take home.

## **FUNOMENA ©**

Students engage in experiments related to all types of phenomena-naturally occurring events. First we make our very own earthquakes. Next we discover volcanoes, and we all build and erupt a real chemical volcano. The next experiment students discover hurricanes from birth as tropical waves through full blown category 5's. Students get up close and hands-on with tornadoes, and learn about vortex action. In the next experiment, students discover the changing conditions that cause these natural phenomena's and we make our very own silly putty.



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## **GERMS MAKE ME SICK ©**

Students will explore a world of germs. All students will receive a little bit of lotion in their hand. The scientist will put lotion in their hand also along with some glitter. The students and scientist will “give each other 5!” and shake hands and touch things. Students will then observe all the glitter germs that have spread around. Students will then learn more about germs as they make their own Petri dishes and bacterial colonies out of ribbons, buttons and more.

## **GET GROWING ©**

Today’s High Touch-High Tech® science program was about plants and how they grow. We observed desert plants, learned how an aloe vera plant stores water inside of its leaves, and how it can help burns. We also made a hydroponic plant that doesn’t need water..

## **GOLD RUSH ©**

Kids will search for rocks and minerals in the crust layer of the earth’s surface. They will learn about the prospectors, and how they would “pan for gems.” The kids will have the opportunity to “pan for gems” the way the prospectors did. Each child will receive a cup of the earth’s crust and a pan. Leaning over our water troughs, the children will pour some crust into their pan, dip the pan in the water, swirl it around revealing many awesome gem stones. Everything they find they may keep. After the kids have found all their gems, we now become geologists and we do several geological tests on our gem stones for identification.

## **GOOD VIBRATIONS ©**

Students will learn about sounds. Students will discover a tuning fork and how sounds are really vibrations. Students will see sounds travel through water. Students will then discover different objects that make different sounds. These objects are carefully hidden in eggs so students will discriminate between different sounds without seeing the objects.

## **HAVE A HEART ©**

Each student will receive a stethoscope to listen to their hearts beat at rest, as well as after running in place. The children will then do a very fun experiment to actually see their pulse. This is done with a straw and tape and the children can actually see their pulse. Students will have an opportunity to put on a special vest to see their organs and where their heart is.



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## **IT'S A FINE TIME ©**

We learned all about time. We discovered we could tell time by the sun. We made our own timer to keep!

## **JURASSIC JR. ©**

Today's High Touch-High Tech® program was all about fossils. We examined real fossils, learned where fossils came from and why they are so important to scientists. Each young paleontologist got to make their very own fossil to keep!

## **LEAF ME ALONE ©**

In this High Touch High Tech lesson students discover how cool plants are. We build a greenhouse to keep. We even separate chlorophyll!

## **LET THE SUNSHINE IN ©**

Today's High Touch-High Tech® science program was all about the sun! We learned that the sun is a star that gives us heat, light and energy. We learned about day and night and how you can use the sun to tell time. We made solar designs to bring home.

## **MAGNET MAKERS ©**

Students discover all the amazing properties of magnetism. Breaking off into totally participatory stations, they make their very own magnet, their very own compass, and they get to see the magnetic field, and much, much more! Students also build an electromagnet and discover all the attractive facts.

## **MAGNIFYING MADNESS ©**

In this program your kids will get a glimpse of a micro-world through the lens of a magnifying glass. They will be amazed at what they see when they get a close up view of beautiful sea shells, different types of really cool bugs, sharks teeth and real dinosaur teeth, plants and plant parts. Finally, they will become geologists and get to examine beautiful gems and even take one home.

## **MAKE A MACHINE ©**

This program will give your kids a fun introduction to machines through hands on learning. They will make a lever that looks like a mini see-saw and then learn how screws work as well as the important role the screw plays in today's world.



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## **MATTER REALLY MATTERS ©**

Students will observe the 3 states of matter; a bag of water, a bag with a rock, and a bag filled with air. Students will then perform an experiment by using a gas to lift a book up. Next, students will each get a cup filled halfway with water. They will mark the water level carefully. Then they will place a rock into their cup to observe the change. Next, students will discover if light is matter by shining a flashlight into water. Finally, students will mix 2 forms of matter to make their very own gummy candies.

## **ME AND MY MAGNET ©**

This magnetic activity will be very attractive to your students and will really grab their attention and curiosity. First they will do some fun simple experiments to help them learn how magnets work and how strong a magnetic field is. Then they'll put their knowledge to use...really fun use, in a magnetic race.

## **METEOROLOGY MADNESS ©**

Get ready for fun weather experiments. Discover air pressure with potatoes. Spin, spin, spin with our cool tornadoes. Lift ice cubes with string!

## **MIXED UP MOLECULES ©**

This program will have your students seeing the world as a molecular playground. They will understand how small molecules are after they smell them through a balloon! They'll learn how some molecules just won't mix with other ones no matter how hard they try. Then your students will become pH detectives as they investigate acids and bases with colorful clues.

## **MOLECULE RACES ©**

At first, your students may not believe that everything in the world is made up of molecules but after our "mol-e-cool" experiments they will believe it and they'll have a blast learning about them too. First, they will do a smelly experiment that will teach them how small molecules are and then they will race water molecules through a maze.

## **MOOVIN' & GROOVIN' ©**

We discovered motion. We made water run down a string. We built our very own moving machine. We explored balance and gravity as we made a balancer to keep.



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Science Experiences That Come To You™

## **MOTIONS AND POTIONS ©**

Your kids will love exploring the crazy characteristics of some very interesting liquids through the sense of touch. They will learn just how different liquids can be from each other and also how some liquids just refuse to mix with other liquids no matter how hard they try.

## **MY PLANET, MY HOME ©**

Today we learned about our incredible planet. We discovered how to take care of our planet. We explored recycling and made a pollen catcher to keep!

## **NO BONES ABOUT IT ©**

Today our young scientists discovered what bones are made out of – CALCIUM. We performed a calcium chemical reaction and discovered other things that are made of calcium. We even learned how bones connect to each other.

## **NUTTY NUTRIENTS ©**

Discover all about food, food groups and all the essentials. Each student will perform several tests on a variety of common foods. We have fun as we test for protein, starch and fat. Have fun as we learn about vitamins and do a fun Vitamin C experiment. Next we become food archeologists and scale the great food pyramid. Next, we engage in a fun food pyramid as we discover how much of each food group we require, learn to make healthy choice and much much more!

## **OLFACTORY FUN FACTORY ©**

Kids in this activity will be building the smell factory that gives us our olfactory sense...the nose. They will be making a nose and all of its parts as they learn how our sense of smell works. Then, their noses will be put to the test as they try to identify some sneaky, and maybe some stinky, smells.

## **OUT OF SIGHT LIGHT ©**

We discovered what light is. We explored shadows and made a magnifier to keep!

## **RAINBOW RELAYS ©**

This colorful program will help your students shed some light on what colors really are and how they are made. They will first discover how a prism separates light into different colors by making a colorful light show. Then, they will make their own rainbow the same way nature does. Finally, they will be amazed by our special paper that can separate colors right before their eyes.



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## **REACTION! REACTION! ©**

Today's High Touch-High Tech® science program was all about chemical reactions. We made chemicals change color, and cleaned pennies with chemicals, and made sparkling stars.

## **SCIENTIFICALLY SCIENCE ©**

Preschool students will each receive a magnifying glass to keep. They will observe whale vertebrae, assorted gem stones, insects and more. They will discover the process of making observations. Students will then observe and conduct 2 chemicals reaction experiments.

## **SENSE-SATIONAL SCIENCE ©**

This program will definitely make sense to your students because they will see it, taste it, and feel it in some really sense-sational activities. First they will become the "papillae police" and try to figure out which parts of the tongue have the four different types of taste. Then, they will have a blast testing their sense of touch on special heat sensitive pads.

## **SHOOT FOR THE STARS ©**

We discovered the incredible night sky. We explored the constellations and even made our very own. We made a shooting star and built a stargazer to keep.

## **SMARTY PLANTS ©**

Students discover all kinds of details about our relationship with the plant kingdom. Then we learn about nutrient transportation in plants and turn carnations blue! Students will keep their carnations. Next students engage in a really fun osmosis experiment. Next we discover baby plants using lima beans. Our final experiment is where students do a fun fast paced photosynthesis reaction.

## **SPOOKY SPIDERS ©**

Today High Touch-High Tech® science lesson was about spiders. We learned how spiders can spin their webs, why a spider is not a bug, and we even made an edible spider.

## **STARCH MARCH ©**

Students go on a fast paced adventure searching for starch. We discover what starch is and how abundant it is. Using a safe iodine surgical scrub we are able to identify starch in all sorts of common foods and not so common foods. Students are exposed to the chemical make up of starch and its really cool properties.



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## **SURFACE CIRCUS ©**

Your students will be so fascinated by our cool experiments, they'll be sure to remember what surface tension is all about. First, they will use surface tension to make their own miniature explosion. Next, they will do an experiment that will combine 3 different streams of water into one large stream. Finally, your kids will get to make their own bubble mixture and bubble blower that will make for a really fun surface circus.

## **TERRIFIC TREES ©**

Today's High Touch-High Tech® science lesson was about trees and why they are so terrific! We learned about leaves and bark and made tree rubbings.

## **THE UNIQUE ME ©**

Students will discover just how special they are as they gaze into a hand held mirror. They will observe and notice carefully the details of their face. They will recognize the different traits that make each person unique. Each student will then color in all their traits on a special handout. Finally students will take their very own fingerprint.

## **UP, UP AND AWAY ©**

Students will discover aerodynamics and what makes things fly. First we discover that many things can fly but not for the same reasons. We discover the true meaning of lift and drag. Students engage in fun jet propulsion relays. They also discover lift with a blimp! Stepping outside we become mission control experts and we have a real rocket launch! Then we come back into the classroom and we actually calculate how high our rocket went! Then we engage in an exciting experiment where we learn how to throttle the space shuttle with a real gyroscope.

## **WET & WILD WATER ©**

Today's High Touch-High Tech® science lesson was all about water. We learned how cool water is and how water can stick together. We also made a wood strip boat that zipped across the water.

## **WHERE IN THE WORLD IS YOUR HOME? ©**

Today's High Touch-High Tech® science program was all about habitats. We learned about beaches and animals that live in the ocean. We even made an ocean bag.



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## **WINDS OF CHANGE ©**

This program is all about changing conditions and how science helps to explain the reason for these changes. First, the students will study changing patterns in heat by studying conductors of energy through an exciting conductor race. Then, they will cause a change in air and wind by blowing up an eight foot bag with only ONE BREATH! You have to do this program to believe it!

## **WHO HAS SEEN THE WIND? ©**

Each student will learn about wind, weather, and weather tools. Students will receive a handout of a windy day. Using a water molecule they will blow a water molecule across the wind handout. A bubble machine will blow bubbles everywhere demonstrating the direction of wind. Each student will get a special weather tool pinwheel to keep!