



High Touch-High Tech[®] Of CNJ

Science Experiences That Come To You

PROGRAM NAME	Description
AIR WITH FLAIR [©]	Campers will discover the cool properties of air by making their own siphon! Discover how we can get a large egg into a little bottle without breaking the egg! Kids will explore how strong the air is using suction cups!
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 and will discover what surfaces bubbles will stick to as well as those surfaces on which bubbles will pop. It is a real bubble blast!
BUBBLY-ODOLOGY [©]	Kids will be amazed at what they can do with Bubbles! They will discover what bubbles will do to light rays by examining them through cool magical glasses. They will make a great big bubble city and then get to race their bubbles down a track to see who has the fastest bubble. Cool!
BUGS, BUGS, BUGS [©]	Your campers will look at the world through the eyes of a bug! Then they will all eat SPIDERS! Yummy ones that they make themselves, of course!
COOL COASTAL SCIENCE [©]	Everyone loves the ocean and the beach but how did it get there? The kids will find out by making sand and waves the same way our earth does. They will also investigate cool things that wash up on the beach and then make a print of their favorite shell.
COOL MOLECULE [©]	In this program kids will investigate some cool molecules through some cool experiments that will explain some crazy behavior between the molecules of different liquids. What happens when they react is MoleCOOL!
CRAZY ABOUT CHEMISTRY [©]	Campers will be crazy about chemistry as we make some cool chemical reactions! They will have a blast as we make glow-in-the-dark Space Mud and our liquidy, solidy Oobleck!
CRAZY CHEMICAL CONCOCTIONS [©]	Kids create crazy colorful concoctions caused by cool chemical combinations. WOW! First they'll make some colorful chemical reactions and then some colorful homemade finger paint. The grand finale is the craziest, gooiest concoction and will be really fun to take home!
CYCLE BABBLE [©]	Kids will learn about the element that separates our planet from the rest and how it circulates through our wonderful earth, mmmm...tasty water! First they will create a rainstorm. Then they will make their own miniature earth system, a terrarium that actually has its own water cycle. Very cool! Then they will do a cool condensation experiment



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	with a really nifty trick.
DINOSAUR DAZE©	Discover the life of a Dinosaur by becoming a paleontologist and investigating how they lived. First, kids will find out what it takes to be a Dino-plant eater by experimenting with some fun plant grinding. Then, they will do another cool experiment that will allow us to calculate the size of those monstrous creatures. The program will end with a delicious dinosaur excavation through some yummy layers.
DISASTER DISASTER©	Whether you like it or not natural disasters are a part of nature's fury and your campers will experience them first hand. Campers will get to do some cool experiments that explore the destructive workings of Hurricanes and demonstrate the awesome power of Volcanoes.
EDIBLE CELLS©	Your campers can't see cells but they will be able to taste them and learn a lot about them at the same time. We will do a cool experiment to see how those tiny living things communicate and function together. Then we will learn about all of the cool parts of a cell by making one with some delicious parts.
EDIBLE SCIENCE©	Every experiment you can eat! We make butter, we make gummy candy and we even have our very own Smelling Bee!
EDISON'S WORKSHOP©	Campers step back in time to the days of Thomas Edison. They will learn about the different types of energy or electricity. Kids learn all the facts as we do some fun static electricity and we all get to touch the lightening globe! Next we do a really cool experiment and we all build our very own electroscope that we get to keep. Next we use batteries and make light bulbs light up and bells ring!
FLIGHT COMMAND©	Discover actions and reactions as we learn about flight. Get ready for what it feels like on the space shuttle with our bicycle wheel gyroscopes. Get ready for our rocket launch!
FLYING HIGH©	Make a Rotor Motor, a Twirlee Whirlee and a cool Glider to keep! Discover how things fly! Learn about helicopters as we make a Twirlee Whirlee using a pipe cleaner, straw and our special handout to make it fly. We also work in a group to discover how rotors work. Then we make a cool glider to keep.
FOLLOW THAT PLANET©	Are you ready for some universal excitement? That's what students will get in this activity as they make their own glow-in-the-dark constellation. Then look out for asteroids, comets and shooting stars as we make our very own Space Mud to



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	keep!
GAS BLAST©	Who would have thought that gas could be so fun and interesting? Campers will experiment with the gasses produced from yeast and soda as well as other wild chemical reaction. Then they will get to have a gaseous race with gas filled balloons! Very Cool!
GET WIRED©	Discover the hair-raising properties of electricity as we make bells ring and make light bulbs light up. Each camper will get to touch the lightening globe and get their hair to stand up using the Van der Graaf generator.
GLOBS & GOO©	Kids will roll up their sleeves and make all kinds of really cool stuff! They will make their very own space mud ball to keep and make something really fun but gross that we call Mucous Madness!
GOING IN CIRCLES©	Make bubbles go in circles and build your very own Loop Plane to keep! Have fun as we catch & stack special bubbles. Make a bubble stretch with our static charge. Make a loop plane out of a straw to keep.
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." Then they will have their opportunity to pan for gems themselves. 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, they will become geologists and will do several geological tests on their gem stones for identification.
GO WITH THE FLOW©	What natural process has the power to move massive boulders, change the path of wide rivers, and crumble huge mountains? Erosion! But, if you don't believe me then your campers need to do this program. These experiments will amaze you and your campers and you won't think of erosion the same way. You'll see it everywhere.
KITCHEN CHYMESTRY©	If your campers want to see some cool chemical reactions with stuff found right in your own kitchen don't do this program cause your kitchen may never be the same. But, they will have a blast as they make their own sidewalk chalk and crazy blow mud to take home with them. Oh and don't worry about the kitchen...it'll be fine.



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LIGHT FEVER©	Look at the amazing world of light through special glasses. The campers won't believe all the colors they'll see. Then they'll get to make a "solar print" using some awesome solar graphic paper. It's really cool.
MIGHTY MOLECULE©	One would think that it would be hard to have fun studying the smallest things on earth but your campers will be surprised because in this program they will have a molecule race and then do an experiment to see if we can SMELL a molecule.
METEROLOGY MADNESS©	Discover wind chill effect; make heat go up and down! Explore the green house effect, touch a cloud, relate to relative humidity, and more! Students build an atmosphere that demonstrates the greenhouse effect. Students observe heat rising using colored hot & cold water, watching it move around & change places. Students will make a cloud! Observe heating rates of land vs. sea. Explore relative humidity.
MISSION CONTROL©	Blast off with cosmic fun. Hop on a spinning gyroscope. Eat real astronaut ice cream and stand by for a real rocket launch!
MYSTERY SCIENCE©	Do you ever wonder how magicians actually do their tricks? Your kids will unlock the secrets that they don't want you to know. Learn the science behind the needle in the balloon trick, the disappearing penny, and other illusions that they call "magic" but we call science.
NUTTY NEWTON©	In this program your campers are going to follow in the footsteps of Isaac Newton by doing some of his nutty experiments on the physical laws of nature. Did you ever wonder how someone could pull off a table cloth without anything on the table moving? This program has the answer...thanks to Newton. Your campers will be amazed.
ON ONE CONDITION©	This program is very exciting, on one condition, that is your campers like doing cool experiments that involve changing conditions through crazy chemical reactions. First they'll create some gooey slime, and then change the chemical state of a potato, and have a finale with a very milky experiment.
POLYMER PARADE©	This program is for the chemist enthusiast that loves to create mixtures, solutions, and polymers. What's a polymer you say? After this activity your campers will teach you because they will have combined, mixed, and unmixed all



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	kinds of cool elements including soda, sand, salt, baking soda, and then they'll get to make your own space mud.
PRIMARY PLANTS©	Discover the importance of plants on our planet and how they live and function. Your campers will get to dissect a seed and then get to plant one to take home and watch it grow into a plant. They'll be planting gardens in no time.
ROCK AND ROLL©	The kids will learn how to be a prospector in the old days and geologist in the new days while you pan for gems. Who knows maybe they'll strike it rich. Probably not, but, they will find some beautiful stones in the earth's crust and they'll get to keep them too.
SALTY SCIENCE©	I bet your campers never thought that salt was such a fascinating compound. In this activity they will unlock the magic of this compound by doing some crazy experiments with salt including ice cube fishing and changing the density of a potato.
SCIENCE CIRCUS©	There is fun science under this big top. Paint with crystals and have fun as we become a Science Separator! Keep your crystal painting as well as your filter separator.
SHAKE RATTLE & ROLL©	Discover jet Propulsion and make your own Power Cup. Make a cool pendulum. We build a really cool power cup that demonstrates the properties of jet propulsion in a SUPER fun manner. You get to keep your cup. Each group will discover transfer of energy as we work with Slinky's.
SOAK IT UP©	This activity really soaks! Your campers will see all kind of things being soaked up in dramatic fashion. They won't believe what these super absorbent crystals can do, it's amazing. Also, there will be some crazy explosive colorations being soaked up by some unsuspectingly peculiar things.
SOUNDS LIKE FUN©	This program introduces students to sound. They learn that sounds are actually vibrations with a fun ruler experiment. Next they learn about how sounds travel in waves, and we do a fun slinky experiment. Then we learn all about our hearing and we build our very own ear drums that each student will take home. In the next experiment we look at some fun properties of sound and we make salt dance using tuning forks. Then we explore music and we build string instruments. Then we all play the fun science wind instruments. Then we make water fly with sound! Each student will receive a science certificate with their name on it



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	for participating.
SPACE...THE FINAL FRONTIER©	One small step for man, one giant leap for your summer campers. Literally, see what a long jump on earth would be without gravity in...The Lunar Olympics! Then, try the Q-tip javelin toss and throw it a mile. You will feel a lot better about your weight on the moon.
SPIILLS AND CHILLS©	This program will make your campers more informed about the causes and effects of oil spills, earthquakes, and acid rain through some cool experiments that involve liquefying, acidifying, and oil spillifying.
STICKS & STONES©	Step back in time to the days of the old prospectors. Every child will pan for gems and everything they find they get to keep. The campers will find amethyst, quartz, fool's gold, peacock ore, fossils and much more.
TAKE A CHILL PILL©	Who would have thought water could be this fun but wait till your campers try ice cube fishing. Then, they will see how crazy and exciting bubbles can be followed by a cool water experiment.
THE BEAKS HAVE IT©	This program will allow your students to experience what it is like to be a bird. First, they will have some fun playing a game with their very own beak. You'll ask yourself how those birds do it. Then, the kids will make their own nest using some very cool materials.
TOOTIN FOR NEWTON©	Physics fun...learn about objects at rest and objects in motion using the fun old table cloth pull. Kids will also have fun with our card and clothespin flick! Have fun with our pretzel break!
TOTALLY TASTY SCIENCE©	This delicious program is filled with yummy science of all kinds so don't do these activities after lunch. First they'll make their own butter, wow, then they'll make their own science soda (pink lemonade), and finish with a smelly experiment.
VOLCANOES©	Campers will become a Volcanologist and make their own tiltometer that scientists use to measure the ground a volcano to determine when it will erupt. Very cool. Then you will do a cool experiment to study how magma changes the shape of the earth. For the grand Finale the campers will erupt a Volcano!
WACKY WATER WORKSHOP©	In this activity your campers will have fun learning all about the life giving element that separates our planet from the rest. H2O! You'll experiment with its cool unique properties such



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	as adhesion and buoyancy and then apply some centrifugal force for some serious science fun.
WATER WORKS©	Discover how cool water really is. First, each child will get to make water and alcohol and then have a tug of war with food coloring molecules! They'll discover floating and sinking with potatoes. Then each child will discover they can stab a pencil through a plastic bag and not spill a drop of water.
WEATHER OR NOT©	Students become weather scientists and learn all about the different types of weather. First we learn about thunder. We can't see it, we can only hear it. So we do a really fun experiment where we actually make thunder! We make the kind of thunder that we can not hear! Then we learn about lightening, and the different types of lightening, cloud to cloud, and cloud to ground. Then each student gets to touch real electricity with our lightening ball! They even get to put their noses on it! The next experiment we learn about is air and air pressure. We do several experiments related to air pressure. The next experiment students learn conditions. Then we do a really fun changing conditions experiment by lowering the freezing point of water in a really fun manner. Each student will receive a certificate for participating.
WEATHER WIZARDS©	Become a meteorologist and have fun with the science of weather. First, the kids will be amazed by the strength of air pressure through a super powerful suction cups. Then, they'll unlock the mystery of how siphoning works when water and air pressure work together. They'll have a blast making your own thunder.
YUMMY, YUMMY, YUMMY©	If your campers are always hungry than this one's for you! Learn how yeast pretzels are made as you make a big, beautiful pretzel to take home and bake!
ZOOM TO THE MOON©	Discover how the moon orbits the earth and how the earth and other planets orbit the sun. Discover centrifugal force and make a Lunar Wheel! Have fun as we discover the relationship between the earth and moon. We put together a cook contraction that shows the moon going around the earth. Everyone will make and keep a cool lunar wheel that goes against gravity.