



High Touch High Tech®

Science Experiences That Come To You™

K–5 Lesson Catalog Aligned to South Carolina Academic Standards for Science

Kindergarten Programs

- **Survive & Thrive© - K.L.2.A**

Key Topic: Demonstrate an understanding of organisms found in the environment & how they depend on the environment to live.

Embark on a WILD scientific adventure as we investigate the traits & characteristics that make the animal kingdom so diverse! Discover various animal distinctions with our Fur or Feathers game, make a birds nest to keep & much more!

- **Let's Make Sense© - K.L.2A.4**

Key Topic: Analyze and interpret data to describe how humans use their senses to learn about the world around them.

Have FUN as we make sense out of our senses. Explore our 5 senses, 1 sense at a time. Find out the science behind our eyesight & taste buds. Have a Smelling Bee and more! Discover how much we rely on our senses every day!

- **Weather Wizards© - K.E.3**

Key Topic: Demonstrate an understanding of daily and seasonal weather patterns.

The forecast for the day is FUN as students transform into mini-meteorologists! We'll discover the science behind our planet's incredible weather systems as we uncover the reason for the seasons. Winter, Spring, Summer, Fall...this program has it ALL as we experience thunder, go ice cube fishing, touch lightning & more!

- **Scientifically Science© - K.P.4**

Key Topic: Demonstrate an understanding of the observable properties of matter.

Have FUN as we watch properties of matter change right before our very eyes! We'll shake things up as we investigate with real magnifying glasses! From floating rings to bubbling potions, we'll uncover the mystery of why matter really matters!



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First Grade Programs

- **The Power of Light© - 1.P.2**

Key Topic: Understand the properties of light and how shadows are formed.

Find out just how amazing light is. Discover who ROY G. BIV is and the electromagnetic spectrum. Uncover the mysteries behind light and why it is both wave like and particle like. Become "energized" as we learn about batteries and make light bulbs light up!

- **Zoom to the Moon© - 1.E.3**

Key Topic: Recognize the features and patterns of the earth, moon, sun system as they are observed.

Discover the patterns of our living planet! Have FUN as we reach for the sky and get a feel for the clouds...literally! Make a real impact as we become Crater Makers & find out how delicious the phases of the moon can be. We'll study the planets, the Moon, eclipses & more through FUN, hands-on investigations.

- **Earthworks© - 1.E.4**

Key Topic: Understand the properties and uses of Earth's natural resource.

Get the "dirt" on Earth's underground layers & discover the only rainbow that can form without light! We'll go on a gem panning expedition & uncover Earth's hidden treasures of real gems, rocks & minerals! Students transform into mini-geologists as they sort, test & investigate all that they find. Everything you find...you keep!

- **Primarily Plants© - 1.I.5**

Key Topic: Understand how the structures of plants help them survive and grow in their environments.

This field trip is sure to turn your students into a class of smarty plants! Find out all plants need to survive. Explore the world's ecosystems, laws of nature, different types of seeds & more! Students will get to extract chlorophyll and build a greenhouse to keep!



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Second Grade Programs

- **Weather or Not© - 2.E.2**

Key Topic: Understand the daily and seasonal patterns of weather and the factors that affect them.

Calling all future-meteorologists! Have FUN as we explore the many different types of weather that affect our planet. Discover how weather conditions can change & what affects our local weather each day. Students will get to make bubble atmospheres, make anemometers, & experiment with wind bags!

- **Cycle Babble© - 2.L.5**

Key Topic: Understand how the structures of animals help them survive and grow in their environments.

Have FUN as we investigate the life cycle & witness some of Mother Nature's coolest magic acts via metamorphosis! Discover some cool characteristics that parents pass down to their offspring in our Here We Grow matching game, build your own edible cocoon, watch DNA come to life in 3-D & more!

- **What's the Matter© - 2.P.3**

Key Topic: Understand the properties of solids and liquids and the changes they undergo.

This field trip focuses on what really matters...hands-on FUN! Get ready for a hands-on property party celebrating matter & the changes it makes! Have FUN with the properties of solids & liquids as we race 'em, spread 'em and mix 'em. Start your engines & join the molecule races, explore evaporation rates & create real chemical reactions that you get to take home! This programs includes the HTHT fan-favorite, Space Mud!

- **Newton In A Nutshell© - 2.P.4**

Key Topic: Understand the effects of pushes, pulls, and friction on the motion of objects.

We all have potential...potential & kinetic energy that is! Your class will get ramped up as they get hands-on with incline planes! Our gyroscopes will have everyone going in circles! The students will also discover inertia, motion and more!



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Third Grade Programs

- **Matter Matters© - 3.P.2**

Key Topic: Understand the structure and properties of matter before and after they undergo a change.

It's just a matter of time until your classroom transforms into a scientific laboratory! Get ready to investigate the properties of matter including solids, liquids & gasses. Find out exactly why matter matters as we discover bubbling potions, watch air take up space, speed things up with our evaporation races & more! Chemical reactions have never tasted so good as we make our own science ice cream... YUM!

- **Edison's Workshop© - 3.P.3**

Key Topic: Understand how electricity transfers energy how forces affect the motion of an object.

Find out all of the current science on electricity & magnetism as students explore Edison's inventions! They'll get to build their own electroscope to take home, get hands-on with static & current electricity, and have FUN with our electromagnets! Discover the shocking facts experimenting with our lightning globe & more!

- **Earthscapades© - 3.E.4**

Key Topic: Compare structures of the Earth's surface using models or 3D diagrams.

This field trip is erupting with FUN as we investigate Earth's dramatic landforms first hand. Your students will transform into mini-geologists as they study the lands from around the globe- from the tops of majestic mountains to the depths of mysterious caves and everything in between. Set out to find the facts on natural acts as we get a hands-on look at earthquakes, volcanoes & more! Finally, we'll get the beef on coral reefs as students make their own 3-D Living Reef to keep!

- **Extreme Scene© - 3.L.5**

Key Topic: Understand how the characteristics and changes in environments and habitats affect the diversity of organisms.

Journey though the Earth's extreme environments! From super cold to super deep, we'll discover the amazing adaptations that help them to survive & thrive in their ever-changing habitats. Have FUN as we shine some light on bioluminescence, build a biome & more!



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Fourth Grade Programs

- **Meteorology Madness© - 4.E.2**

Key Topic: Understand the water cycle and weather and climate patterns.

The forecast for the day is FUN as students transform into mini-meteorologists. Map out the facts as we investigate our planet's unpredictable weather patterns. Prepare to feel the pressure...the air pressure that is! Experience the winds of change as we get an up-close & hands-on look at the changing conditions experimenting with tornadoes, hurricanes, thunder, lightning & more!

- **It Doesn't Phase Me© - 4.E.3**

Key Topic: Understand the locations, movements, and patterns of stars and objects in the solar system.

Calling out all future astronomers! We're blasting off for an out-of-this-world odyssey to study the causes of day & night. Take a bite out of the 8 different phases of the moon & have FUN as we make a real impact becoming crater makers. Get up close & hands-on with solar & lunar eclipses, the planets, our solar system & more!

- **Sounds Like Fun© - 4.P.4B**

Key Topic: Understand the relationship between sounds and vibrating object.

Do you hear what I hear? It's the sweet sound of science! Have FUN as we tune into the different media. Students will be picking up good vibrations as they get hands-on with sound waves, make salt dance, send water flying & build their very own ear drum to keep!

- **Smarty Plants© - 4.L.5**

Key Topic: Understand how the structural characteristics and traits of plants and animals allow them to survive, grow, and reproduce.

Plants are everywhere around us but how much do we really know about them? Prepare to get all the "seedy" facts as we dig into the fascinating world of botany. Have FUN as we study the science of soil & find out how delicious dirt can truly be! Get a hands-on look at real earthworms, dissect a seed, make & take home a pollen catcher. Build your very own working terrarium to keep!



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Fifth Grade Programs

- **Matter Matters© - 5.P.2**

Key Topic: Understand the structure and properties of matter before and after they undergo a change.

It's just a matter of time until your classroom transforms into a scientific laboratory! Get ready to investigate the properties of matter including solids, liquids & gasses. Find out exactly why matter matters as we discover bubbling potions, watch air take up space, speed things up with our evaporation races & more! Chemical reactions have never tasted so good as we make our own science ice cream...YUM!

- **Eco-Safari© - 5.L.4**

Key Topic: Understand the interdependence of plants & animals with their ecosystem. Explain how animals use adaptations & behaviors to survive in their habitat & the environment's changing conditions.

Are you ready to explore Earth's more incredible ecosystems? Students will set out on a scientific safari to discover the amazing habitats that can be found across our planet and the wild animals that call it home! Have FUN as you build your very own rainforest, dissect REAL owl pellets, make a spider web & much more!

- **Forced to Change© - 5.P.5**

Key Topic: Understand the factors that affect motion of an object.

Find out why things are forced to change as we discover how different forces can change motion. Compete in the Gravity Games as we unlock the mysteries behind the amazing force that affects us all! Join in the FUN as we examine inertia and motion. Prepare to get the job done with push, pull & more!

- **Earthscapades© - 5.E.3**

Key Topic: Compare structures of the Earth's surface using models or 3D diagrams.

This field trip is erupting with FUN as we investigate Earth's dramatic landforms first hand. Your students will transform into mini-geologists as they study the lands from around the globe- from the tops of majestic mountains to the depths of mysterious caves and everything in between. Set out to find the facts on natural acts as we get a hands-on look at earthquakes, volcanoes & more! Finally, we'll get the beef on coral reefs as students make their own 3-D Living Reef to keep!