



High Touch High Tech®

Science Experiences That Come To You™

Program Alignment with Massachusetts Science and Technology/Engineering Curriculum Framework

Pre K through Grade 2

Learning Strand/Broad Topic	Pre K – 2 Learning Standard	High Touch High Tech Programs
Earth and Space Science		
Materials and energy resources	1. Water, rocks, soil and living organisms are found on the earth's surface	Our Living Planet © Discover why the Earth is our living planet. Catch some rays as we discover ultraviolet light, the atmosphere, and more. Touch a cloud! Get into the swing of things as we learn about the equinox and solstice. Discover what biome is your home!
	2. Air is a mixture of gases that is all around us and that wind is moving air	Weather or Not © (Program description – see below)
Energy in the earth's system	3. Weather changes from day to day and over the seasons	Weather or Not © Learn about weather as we take an up close and hands-on look at a real tornado. Watch as we make thunder. Discover all the amazing properties of air and air pressure. Touch a cloud and lightning!
	4. The sun supplies heat and light to the earth and is necessary for life	The Power of Light © Find out just how amazing light is. What is visible light? 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”, transfer energy and light up bulbs!
Earth in the solar system	5. Events around us that have repeating patterns, including the seasons of the year, day and night	Cosmic Capers© Travel through space as we explore our solar system. Learn about our planets, the phases of the moon, eclipses and much more. Have a real impact, as we create craters and look at asteroid impacts. Enjoy some astronaut ice cream!
Life Science		

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Learning Strand/Broad Topic	Pre K – 2 Learning Standard	High Touch High Tech Programs
Characteristics of living things	1. Animals (including humans) and plants are living things that grow, reproduce and need food, air and water	<p>Get Buggy © Discover the incredible world of bugs. Find out all the cool and creepy things bugs do. Design your own bug, see through the eyes of bugs, make your very own beehive and more. Explore the many ways bugs help our world.</p> <p>Smarty Plants © Discover the amazing world of plants. Learn about photosynthesis and germination. Have a hands-on look at roots, shoots, and transportation inside a plant. Get all the “seedy” facts!</p> <p>The Body Shop © Step into the world of the pediatrician’s office. Take your weight, height, and temperature. Take a deep breath as we listen to our heartbeat with real stethoscopes. Discover your reflexes. Put on gloves like surgeons and have a hands-on look at real bones! Explore the world of vaccines as we work with syringes. Meet the Angry Antibody Army and much more!</p>
	2. Characteristics of living and non-living things	Smarty Plants © (Program description – see above)
Heredity	3. Plants and animals closely resemble their parents in observed appearance	The Print Shop © The fingerprint shop, that is! Learn about your genetically unique fingertip patterns. Discover the world of dermatoglyphics. Learn about what makes you genetically unique and genetically different from everyone else. Make DNA molecules that you can eat!
Evolution and biodiversity	4. Fossils provide us with information about living things that inhabited the earth years ago	Jurassic Jr. © Step back in time to the age of the dinosaurs. Become a paleontologist as we dig for and discover real fossils. Uncover the mysteries of the dinosaurs.

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Learning Strand/Broad Topic	Pre K – 2 Learning Standard	High Touch High Tech Programs
		Examine real fossils and make your very own fossil.
Living things and their environment	5. People and other animals interact with the environment through their senses.	Let's Make Sense © Have FUN as we make sense out of our senses. Explore our five senses, one sense at a time. Discover how much we rely on our senses.
	6. Animals and plants go through changes in appearance as the seasons change	Survive and Thrive © From stinky skunks to flying frogs, your students journey through the amazing ways animals survive on earth. Make your own creatures that must survive.
	7. An organism's habitat provides for its basic needs	Down Deep© Discover our oceans and what creatures live down deep. Explore echolocation, whale song, and bioluminescence. Make your own jellyfish and find out how deep sea marine creatures survive and thrive. Get Buggy © (Program description –see above) Sea Ya Later© Explore our amazing underwater world. Learn about plankton, and why almost all ocean life depends on them. Get the Beef on Coral Reefs! Discover how marine mammals stay warm. Make your very own reef to keep! Survive and Thrive © (Program description –see above)
Physical Science		
Properties of materials and	1. Observable properties such as size, shape, color, weight and texture	What's the Matter © Find out what really matters. Have FUN as we explore all different types of

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Learning Strand/Broad Topic	Pre K – 2 Learning Standard	High Touch High Tech Programs
matter		matter. Discover bubbling potions. Watch air take up space and solids turn into gases!
States of matter	2. Objects and materials as solid, liquid or gas. Solids have a definite shape and that liquids and gases take the shape of their container	What's the Matter © (Program description – see above)
Position and motion of objects	3. Objects can move in various ways	Newton in a Nutshell © Step back in time to the days of Newton. Have a hands-on look at inertia, forces and motion. Discover gravity and have FUN as we push, pull, and find out what makes things move, rotate, revolve and stop with Newton's laws of motion.
	4. The way to change the motion of an object is to apply a force. The greater the force, the greater the change in motion.	Newton in a Nutshell © (Program description –see above)
	5. Objects can be balanced under some conditions	Finally Fun Machines © (Program description – see below)
Technology/Engineering		
Materials, tools and machines	1.1. Safe and proper use of tools and materials to construct simple structures	Finally Fun Machines © Finally, a hands-on and FUN program on machines. Make your very own screw out of a carrot. Meet The Facilitator, our cool multi-personality compound machine, and engage in pulley power and incline plane antics. Discover the balance in your life as we make our very own levers.
Engineering design	2.1. Tools and simple machines used for a specific purpose	Finally Fun Machines © (Program description – see above)
	2.2. Human beings and animals use parts of the body as tools	Finally Fun Machines © (Program description – see above)

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Learning standards for Grades 3 through 5 – next page

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Program Alignment with Massachusetts Science and Technology/Engineering Curriculum Framework

Grades 3 through 5

Learning Strand/Broad Topic	Grades 3-5 Learning Standard	High Touch High Tech Programs
Earth and Space Science		
Materials and energy resources	1. What a mineral is	Dig It © Step into the world of Geology and the Rock Cycle. Learn about gems, rocks, and minerals and where they come from. Uncover the mysteries of rock formation and crystalline structure. Pan for real gems and keep what you find. Perform a battery of tests as we classify our gems.
	2. Physical properties of minerals and tests for those	Dig It © (Program description – see above)
	3. The properties of soil include color, texture, and the abilities to retain water and support the growth of plants	Smarty Plants © Discover the amazing world of plants. Learn about photosynthesis and germination. Have a hands-on look at roots, shoots, and transportation inside a plant. Get all the “seedy” facts!
Energy in the earth’s system	4. Air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time	Weather or Not © Learn about weather as we take an up close and hands-on look at a real tornado. Watch as we make thunder. Discover all the amazing properties of air and air pressure. Touch a cloud and lightning! Meteorology Madness © Discover the force of wind and air pressure. Touch a cloud and experience the power of lightning! Look at clouds and weather maps to predict the weather.
	5. Various forms of precipitation are connected to the weather in a particular place and time	Weather or Not © Meteorology Madness © (Program descriptions – see above)
	6. Global patterns influence local weather, which can be measured	Meteorology Madness © (Program description – see above)

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Learning Strand/Broad Topic	Grades 3-5 Learning Standard	High Touch High Tech Programs
	7. Weather is different from climate	Meteorology Madness © (Program description – see above)
Earth processes and cycles	8. The three categories of rocks and the processes that create them	Dig It © (Program description – see above)
	9. Soil is formed by the weathering of rock and decomposition of plant and animal remains	Dig It © (Program description – see above)
	10. Water on earth cycles in different forms and locations	Weather or Not © Meteorology Madness © (Program description – see above)
	11. Cycling of water, both in and out of the atmosphere has an effect on climate	Weather or Not © Meteorology Madness © (Program description – see above)
Structure of the Earth	12. Earth's surface changes due to slow processes such as erosion and weathering, and rapid processes such as landslides, volcanic eruptions and earthquakes	Fun'omena © Get the facts...on those natural and unnatural acts! Earthquakes, hurricanes, tornadoes, volcanoes and oil spills. Learn about our changing conditions and what causes these phenomena. Have FUN as we make them happen in your classroom.
Earth in the solar system	13. Earth is a part of the "solar system" that includes the sun, planets and many moons. Earth is the third planet from the sun.	Cosmic Capers © Travel through space as we explore our solar system. Learn about our planets, the phases of the moon, eclipses and much more. Have a real impact, as we create craters and look at asteroid impacts. Enjoy some astronaut ice cream!
	14. Earth orbits the sun in a year's time and rotates on its axis in approximately 24 hours. The rotation of the earth, day/night, and apparent movements of the sun, moon and stars are connected.	Cosmic Capers© (Program description – see above)
	15. Changes occur in the observable shape of the moon over a month.	Cosmic Capers © (Program description – see above)
Life Science		
Characteristics of	1. Physical characteristics of plants and animals	Smarty Plants ©

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Learning Strand/Broad Topic	Grades 3-5 Learning Standard	High Touch High Tech Programs
living things		Discover the amazing world of plants. Learn about photosynthesis and germination. Have a hands-on look at roots, shoots, and transportation inside a plant. Get all the “seedy” facts!
	2. Plants and animals go through predictable life cycles, including birth, growth, development, reproduction, and death	Content included in various programs
Systems in living things	2. Structures in plants that are responsible for food production, support, water transport, reproduction, growth, and protection	Smarty Plants © (Program description – see above)
Heredity	15. Observed characteristics of plants and animals can be fully inherited or they can be affected by the climate or environment	The Print Shop © The fingerprint shop, that is! Learn about your genetically unique fingertip patterns. Discover the world of dermatoglyphics. Learn about what makes you genetically unique and genetically different from everyone else. Make DNA molecules that you can eat!
Evolution and biodiversity	16. Inherited characteristics may change over time as adaptations to changes in the environment enable organisms to survive	The Print Shop © (Program description – see above) Survive and Thrive © From stinky skunks to flying frogs, your students journey through the amazing ways animals survive on earth. Make your very own creature that must survive. The Chain Gang© Join the chain gang, the food chain that is. Have fun as we learn about predator-prey relationships and food webs and dissect real owl pellets. Find out how animals protect themselves in the wild!

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	17. Changes in the environment have caused some plants and animals to die or move to new locations	<p>Extreme Scene © Journey through the earth's extreme environments. Have FUN as we learn about deserts and see how animals and plants adapt to these harsh climates. Explore the amazing survival of the cactus. Learn about volcanoes, arctic biomes and make a penguin. Roll up your sleeves as we discover some slimy things.</p> <p>Survive and Thrive © (Program description – see above)</p>
Living things and their environments	18. Organisms meet needs by using behaviors in response to information from the environment. Some behaviors are instinctive and others learned.	<p>mileyVIRUS © Explore the cool and creepy world of the virus. Discover how a virus is neither alive nor dead. Have FUN as we learn how a virus invades a cell and takes over. Build your very own virus to keep, and much more!</p> <p>Survive and Thrive © (Program description – see above)</p> <p>The Print Shop © (Program description – see above)</p>
	19. Plants have characteristic behaviors. Plants and animals can survive harsh environments via seasonable behaviors.	<p>Extreme Scene © (Program description – see above)</p>
	20. Organisms can cause changes in their environment to ensure survival, which may affect the ecosystem	<p>Survive and Thrive © (Program description – see above)</p>
	21. Energy derived from the sun is used by plants to produce sugars and is transferred within a food chain from producers to consumers to decomposers	<p>Smarty Plants © Discover the amazing world of plants. Learn about photosynthesis and germination. Have a hands-on look at roots, shoots, and transportation inside a plant. Get all the “seedy” facts!</p>

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Learning Strand/Broad Topic	Grades 3-5 Learning Standard	High Touch High Tech Programs
Physical Science		
Properties of materials and matter	1. Properties of objects and materials	Matter Matters © Discover all states of matter including plasma. Explore evaporation rates and the cool journey from liquid to gas. Make your very own silly putty to take home!
States of matter	2. Solids, liquids and gases have distinct properties	What's the Matter © Find out what really matters. Have FUN as we explore all different types of matter. Discover bubbling potions. Watch air take up space and solids turn into gases! Matter Matters © (Program description – see above)
	3. Water can be changed from one state to another by adding or taking away heat	What's the Matter© (Program description – see above) Matter Matters © (Program description – see above)
Forms of energy	4. Basic forms of energy, which cause motion or create change	Finally Fun Machines © for Grade 4+ Finally, a hands-on and FUN program on machines. Make your very own screw out of a carrot. Meet The Facilitator, our cool multi-personality compound machine, and engage in pulley power and incline plane antics. Look at everyday machines and see what cool functions they have. Enter the world of screws and determine the most appropriate tools to use. Newton in a Nutshell© Step back in time to the days of Newton. Have a hands-on look at inertia, forces and motion. Discover gravity and have FUN as we push, pull, and find out what makes things move, rotate, revolve and stop with Newton's laws of motion. The Heat is On©

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Learning Strand/Broad Topic	Grades 3-5 Learning Standard	High Touch High Tech Programs
	<p>5. Energy can be transferred from one form to another</p>	<p>Stay Cool, as this program really heats things up! Have FUN as we uncover the mysteries of the electromagnetic spectrum. Discover how light and heat both absorb and reflect, as we encounter heat transfer and heat conduction!</p> <p>Edison’s Workshop © Explore the amazing world of electricity. Learn what’s “current” as you make water bend and hair rise. Transfer energy and get all the electrifying facts!</p> <p>Finally Fun Machines © (Program description – see above)</p> <p>Newton in a Nutshell© (Program description – see above)</p> <p>The Power of Light© Find out just how amazing light is. What is visible light? 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”, transfer energy and light up bulbs!</p> <p>The Heat is On© Stay Cool, as this program really heats things up! Have FUN as we uncover the mysteries of the electromagnetic spectrum. Discover how light and heat both absorb and reflect, as we encounter heat transfer and heat conduction!</p>

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Learning Strand/Broad Topic	Grades 3-5 Learning Standard	High Touch High Tech Programs
Electrical and magnetic energy	6. Electricity in circuits requires a complete loop for an electrical current. Electricity can produce light, heat, and sound.	<p>Edison's Workshop © Explore the amazing world of electricity. Learn what's "current" as you make water bend and hair rise. Transfer energy and get all the electrifying facts!</p> <p>The Power of Light © Find out just how amazing light is. What is visible light? 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", transfer energy and light up bulbs!</p>
	7. Objects and materials can be conductors or insulators of electricity	<p>Edison's Workshop © The Heat is On © (Program descriptions – see above)</p>
	8. Making and using electromagnets	<p>Magnet Makers © Discover the properties of magnetism. Have FUN as we uncover all the "attractive" and "repulsive" facts. Make your very own electromagnet. Uncover the many uses for magnets and magnetic forces!</p>
	9. Magnets have poles that repel and attract each other	<p>Magnet Makers © (Program description – see above)</p>
	10. A magnet will attract some objects and materials but not others	<p>Magnet Makers © (Program description – see above)</p>
Sound and light energy	11. Sound is produced by vibrating objects and travels through a medium. The rate of vibration is related to the pitch of the sound.	<p>Vibes © Catch the Vibes... and find out all the amazing facts about sound. Learn about wave motion, see sound, and have FUN as we make our own musical instrument. Find out about hearing as we make our very own ear drums.</p>

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	12. Light travels in a straight line until it strikes an object or travels from one medium to another. Light can be reflected, refracted, and absorbed.	The Power of Light © Find out just how amazing light is. What is visible light? 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”, transfer energy and light up bulbs!
Technology/Engineering		
Materials, tools and machines	1.1 Identify materials used to accomplish a design task based on a specific property, e.g. strength, hardness, and flexibility. 1.3 Differences between simple and complex machines	Finally Fun Machines © for Grade 4+ Finally, a hands-on and FUN program on machines. Make your very own screw out of a carrot. Meet The Facilitator, our cool multi-personality compound machine, and engage in pulley power and incline plane antics. Look at everyday machines and see what cool functions they have. Enter the world of screws and determine the most appropriate tools to use.

Next page: RI Science Grade Span Expectations

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High Touch High Tech Science Made Fun Program Alignment with RI Science Grade Span Expectations (Grades: K-8)

RI Grade Span Expectations		Aligned High Touch High Tech of New England Programs
Earth and Space Science (Grades: K-4)		
ESS1 – The earth and earth materials as we know them today have developed over long periods of time, through continual change processes	ESS1 (K-4) – 1: Physical properties to sort, classify, and describe rocks and minerals	Dig It© (Gr. 2-4) Step into the world of Geology and the Rock Cycle. Learn about gems, rocks, and minerals and where they come from. Uncover the mysteries of rock formation and crystalline structure. Pan for real gems and keep what you find. Perform a battery of tests as we classify our gems.
	ESS1(K-4) – 3: Scientific instruments used to gather data on weather ESS1 (K-4)- 5: Weather changes or weather patterns	Weather or Not© (Gr. 1-2) Learn about weather as we take an up close and hands-on look at a real tornado. Watch as we make thunder. Discover all the amazing properties of air and air pressure. Touch a cloud and lightning!
ESS2 – The earth is part of a solar system, made up of distinct parts that have temporal and spatial interrelationships	ESS2 (K-4) – 7: Temporal or positional relationships between or among the earth, sun, and moon ESS2 (3-4) – 8: Characteristics of the solar system	Cosmic Capers© (Gr. 3-4) Travel through space as we explore our solar system. Learn about our planets, the phases of the moon, eclipses and much more. Have a real impact, as we create craters and look at asteroid impacts. Enjoy some astronaut ice cream!
Physical Science (Grades: K-4)		
PS1 – all living and nonliving things are composed of matter having characteristic properties that distinguish one substance from another	PS1 (K-4) – 1: Physical properties of matter PS1(K-4) – 2: The effect of heating or cooling on the states of matter	What’s the Matter© (Gr. 1-2) Find out what really matters. Have FUN as we explore all different types of matter. Discover bubbling potions. Watch air take up space and solids turn into gases! Matter Matters© (Gr. 3-4): Discover all states of matter including plasma. Explore evaporation rates and the cool journey from liquid to gas. Make your very own silly putty to take home!
PS2 – Energy is necessary for change to occur in matter. Energy can be stored, transferred, and transformed, but cannot be destroyed.	PS2 (K-4)– 4 & 5: Light, sound, electrical energy, circuits	Sounds Like Fun© (Gr. 1-2) Learn about the different types of sound. Discover what sounds actually are. Make sound travel through different media. Build your very own ear drum. Make salt dance and water fly! Edison’s Workshop© (Gr. 3-4)

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RI Grade Span Expectations		Aligned High Touch High Tech of New England Programs
		<p>Explore the amazing world of electricity. Learn what's "current" as you make water bend and hair rise. Transfer energy and get all the electrifying facts!</p> <p>The Power of Light© (Gr. 3-4) Find out just how amazing light is. What is visible light? 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", transfer energy and light up bulbs!</p> <p>Vibes© (Gr. 3-4) Catch the Vibes... and find out all the amazing facts about sound. Learn about wave motion, see sound, and have FUN as we make our own musical instrument. Find out about hearing as we make our very own ear drums.</p>
	PS2 (K-4)– 6: Heat moves from one object to another	<p>The Heat is On© (Gr. 3-4) Stay Cool, as this program really heats things up! Have FUN as we uncover the mysteries of the electromagnetic spectrum. Discover how light and heat both absorb and reflect, as we encounter heat transfer and heat conduction!</p>
PS3 – the motion of an object is affected by forces	PS3 (K-4) – 7: The effect of a change in force on the position, direction of motion, or speed of an object.	<p>Gravity Games© (Gr. K-2) Get ready for the games! Unlock the mysteries of this amazing force that affects us all. Learn about G-Forces, Centrifugal Force, and why the center of gravity is so important in building structures. Have fun as you build your very own leaning Tower of Pisa.</p> <p>Newton in a Nutshell© (Gr. 3-4) Step back in time to the days of Newton. Have a hands-on look at inertia, forces and motion. Discover gravity and have FUN as we push, pull, and find out what makes things move, rotate, revolve and stop with Newton's laws of motion.</p>
	PS3 (K-4)– 8: Magnetism – attraction and repulsion	<p>Magnet Makers© (Gr. 3-4) Discover the properties of magnetism. Have FUN as we uncover all the "attractive" and "repulsive" facts. Make your very own electromagnet. Uncover the many uses for magnets and magnetic</p>

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		forces!
Life Science (Grades: K-4)		
LS1 – All living organisms have identifiable structures and characteristics that allow for survival	LS1 (K-4) - 2: The basic needs of plants and animals in order to stay alive	Smarty Plants © (Gr. 1-3) Discover the amazing world of plants. Learn about photosynthesis and germination. Have a hands-on look at roots, shoots, and transportation inside a plant. Get all the “seedy” facts!
	LS1 (K-4) – 4: The physical structures of an organism (plants or animals) allow it to survive in its habitat/environment. LS3 (K-4) – 7: How changes to the environment can cause organisms to respond	Survive and Thrive © (Gr. 1-2) From stinky skunks to flying frogs, your students journey through the amazing ways animals survive on earth. Make your very own creature that must survive. Extreme Scene © (Gr. 3-4) Journey through the earth’s extreme environments. Have fun as we learn about deserts and see how animals and plants adapt to these harsh climates. Explore the amazing survival of the cactus. Learn about volcanoes and arctic biomes. Roll up your sleeves as we discover some slimy things.
LS2 – Matter cycles and energy flows through an ecosystem	LS2 (K-4) – 5: Energy is needed for all organisms to stay alive and grow	Smarty Plants © (Gr. 1-3) Discover the amazing world of plants. Learn about photosynthesis and germination. Have a hands-on look at roots, shoots, and transportation inside a plant. Get all the “seedy” facts!
	LS2 (K-4) – 6: The ways plants and animals depend on each other	The Chain Gang © (Gr. 4) Join the chain gang, the food chain that is. Have fun as we learn about predator-prey relationships and food webs and dissect real owl pellets. Find out how animals protect themselves in the wild!
LS3 – Groups of organisms show evidence of change over time	LS3 (K-4) – 7: How changes to the environment can cause organisms to respond	The Print Shop © (Gr. 4) The fingerprint shop, that is! Learn about your genetically unique fingertip patterns. Discover the world of dermatoglyphics. Learn about what makes you genetically unique and genetically different from everyone else. Make DNA molecules that you can eat!
LS4 – Humans are similar to other species in many ways, and yet are unique among Earth’s life forms	LS4 (K-4) – 8: Functions of the sense organs	Let’s Make Sense © (Gr. K-1) Have FUN as we make sense out of our senses. Explore our five senses, one sense at a time. Discover how much we rely on our

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RI Grade Span Expectations		Aligned High Touch High Tech of New England Programs
	LS4 (K-4) – 9: Characteristics inherited from parents and characteristics that are learned	senses. The Print Shop © (Gr. 4) The fingerprint shop, that is! Learn about your genetically unique fingertip patterns. Discover the world of dermatoglyphics. Learn about what makes you genetically unique and genetically different from everyone else. Make DNA molecules that you can eat!
Engineering and Technology (Grades: K-4)		
ET2 – Effective design through engineering and technology is the outcome of a problem solving process ET3 – The designed world community selects and uses the appropriate technology	ET2.3 (K-4) : Simple machines ET3.2 (K-4): Appropriate tools	Finally Fun Machines © (Gr. 2-3) Finally, a hands-on and FUN program on machines. Make your very own screw out of a carrot. Meet The Facilitator, our cool multi-personality compound machine, and engage in pulley power and incline plane antics. Discover the balance in your life as we make our very own levers. Finally Fun Machines © for Grade 4+ Finally, a hands-on and FUN program on machines. Make your very own screw out of a carrot. Meet The Facilitator, our cool multi-personality compound machine, and engage in pulley power and incline plane antics. Look at everyday machines and see what cool functions they have. Enter the world of screws and determine the most appropriate tools to use.
Earth and Space Science (Grades: 5-8)		
ESS1 – The earth and earth materials as we know them today have developed over long period of time, through continual change processes	ESS1 (5-6)– 1: Earth’s layers, crust and plates ESS1 (5-6) – 3: Earth events abruptly and over time bring about changes in the Earth’s surface	‘Fun’omena © (Gr. 5-6) Get the facts...on those natural and unnatural acts! Earthquakes, hurricanes, tornadoes, volcanoes and oil spills. Learn about our changing conditions and what causes these phenomena. Have FUN as we make them happen in your classroom.
	ESS1 (5-6) – 2: Cycling of water into and out of the atmosphere and their connections to our planet’s weather patterns ESS1(5-6)– 4: The role of differential heating or convection in ocean currents, winds, weather and weather patterns, atmosphere, or climate	Meteorology Madness © (Gr. 5-6) Discover the force of wind and air pressure. Touch a cloud and experience the power of lightning! Look at clouds and weather maps to predict the weather.

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	ESS1(5-6)– 5: Rock characteristics and the rock cycle	Dig It© (Gr. 5-6) Step into the world of Geology and the Rock Cycle. Learn about gems, rocks, and minerals and where they come from. Uncover the mysteries of rock formation and crystalline structure. Pan for real gems and keep what you find. Perform a battery of tests as we classify our gems.
ESS2 – The earth is part of a solar system, made up of distinct parts that have temporal and spatial interrelationships	ESS2 (5-6)– 8: Temporal and positional relationships between the Earth, sun and Moon. How gravitational force affects objects in the solar system.	Cosmic Capers© (Gr. 5-6) Travel through space as we explore our solar system. Learn about our planets, the phases of the moon, eclipses and much more. Have a real impact, as we create craters and look at asteroid impacts. Enjoy some astronaut ice cream!
Physical Science (Grades: 5-8)		
PS1 – All living and nonliving things are composed of matter having characteristic properties that distinguish one substance from another	PS1 (7-8) – 3: Conservation of matter PS1 (7-8)– 5: atoms, molecules, elements and compounds	LEGO ATOMS AND MOLECULES (Gr. 7-8) <i>(Program developed by MIT's Mind Hand Alliance)</i> Understand the difference between compounds and mixtures and what happens to atoms and molecules in a chemical reaction. First do a wet lab and experience a live chemical reaction! Then work with Lego bricks to build molecules and find out what happened to the atoms and molecules during the chemical reaction.
PS2 – Energy is necessary for change to occur in matter. Energy can be stored, transferred, and transformed, but cannot be destroyed.	PS2 (5-6)– 6: Sound PS3 (5-6) – LA – Energy transfer by means of waves	Vibes© (Gr. 5-6) Catch the Vibes... and find out all the amazing facts about sound. Learn about wave motion, see sound, and have FUN as we make our own musical instrument. Find out about hearing as we make our very own ear drums.
	PS2 (5-6) – 7: Convection, conduction and radiation of heat	The Heat is On© (Gr. 5-6) Stay Cool, as this program really heats things up! Have FUN as we uncover the mysteries of the electromagnetic spectrum. Discover how light and heat both absorb and reflect, as we encounter heat transfer and heat conduction!
Life Science (Grades: 5-8)		
LS1 – All living organisms have identifiable structures and	LS1 (5-6) – 4: Structure and function of cells and organ systems	Silly Cells© (Gr. 5-6) Discover the amazing world of biology. Experience osmosis, and

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characteristics that allow for survival		<p>even make your very own edible cell. Become a geneticist, and extract REAL DNA! Get ready to send in the clones!</p> <p>GLOBS, GOO AND GUTS© (Gr. 7-8) The way to the heart is through the stomach! Learn the functions of the body's circulatory and digestive systems and how the two are interrelated. Examine real cow hearts and other organs and do experiments to understand the functions of each.</p>
LS2 – Matter cycles and energy flows through an ecosystem	LS2(5-6) - 5: The variety of relationships within an ecosystem (predator/prey, consumer/producer/decomposer) LS2(5-6) – 7: Food webs	<p>The Chain Gang© (Gr. 5-6) Join the chain gang, the food chain that is. Have fun as we learn about predator-prey relationships and food webs and dissect real owl pellets. Find out how animals protect themselves in the wild!</p>
LS4 – Humans are similar to other species in many ways, and yet are unique among Earth's life forms	LS4 (5-6) – 11: Differences between inherited traits and acquired traits	<p>The Print Shop© (Gr. 5-6) The fingerprint shop, that is! Learn about your genetically unique fingertip patterns. Discover the world of dermatoglyphics. Learn about what makes you genetically unique and genetically different from everyone else. Make DNA molecules that you can eat!</p>

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