



## High Touch High Tech of New England® Science Experiences That Come To You™

### Middle School Program Listing

We offer a range of programs for Middle Schoolers, including four programs specifically designed for the “Systems of the Body” Framework.

#### **Beams, Bridges, and Columns (ETS1, ETS3)**

Find out what makes buildings and bridges stand up and not fall down. Learn about compression and tension. Become an engineer, design a bridge that can carry a load and test out a prototype! (90 minutes)

#### **Lego Atoms and Molecules (PS1) (Program developed by MIT's Mind Hand Alliance)**

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 an exothermic reaction and 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. (90 minutes)

*“Perfect timing – [Lego Atoms and Molecules] interactive launch lesson couldn’t have been at a better time. My students were so lucky to have you come to our school to launch their unit on chemical interactions.”*

Ms. Valentine, Grade 8, Lilla G. Frederick Pilot Middle School, Dorchester, MA

#### **Silly Cells© (LS1)**

Discover the amazing world of biology. Discover cell walls and more under a microscope. Experience osmosis, and even make your very own edible cell. Become a geneticist and create DNA! (60 minutes)

### **SYSTEMS OF THE BODY**

#### **Get Off My Back© (LS1)**

Discover why it’s cool to be a vertebrate! Check out real bones and X-rays. Get hip as we make our very own ball and socket joints. Stay connected as we work with skeletons to see which bones are connected. Learn about our funny bone and bone marrow! (60 minutes)

#### **Globs, Goo, and Guts© (LS1)**

How is food digested? Examine real cow livers and other organs and do experiments to understand how each functions to extract the nutrients the body needs. (60 minutes)

#### **The Heart of the Matter© (LS1)**

Take a deep breath and examine the chambers of a cow’s heart! Follow the flow of blood in and out of the heart and understand how the heart and lungs work together to transport nutrition to the rest of the body.(60 minutes)

#### **Who’s in Charge? (The Brain and Its Network)© (LS1)**

Get a buzz from the body’s nervous system. Build a neuron and find out how the brain controls all functions of the body. Find out what the brain feels like and how you can protect your brain! (60 minutes)

Programming provided in

Grades K-8 • After-School Programs • Pre-Schools • Vacation Camps • Science Nights  
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