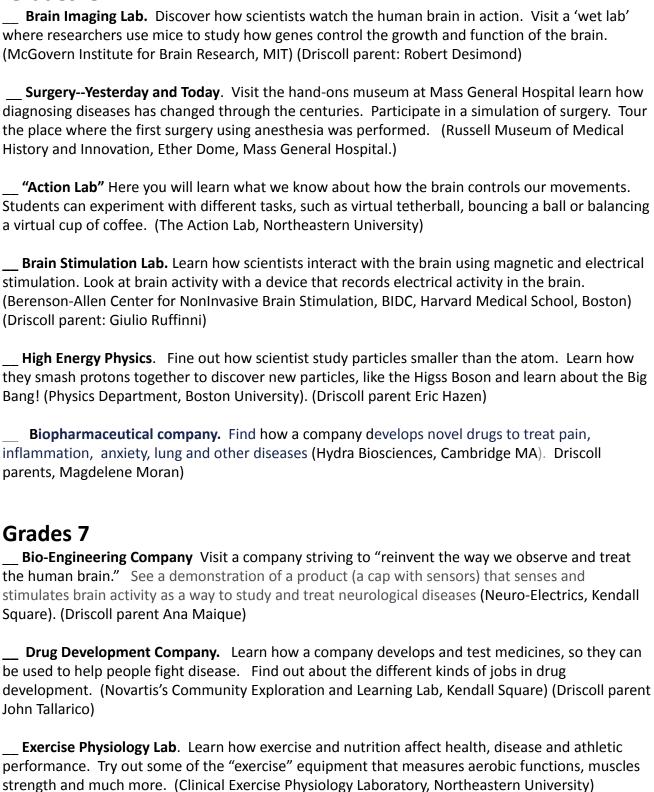
Science Solstice: Dec. 16, 2016

## **Grades 8**



Pharmaceutics Lab. Visit a teaching lab where aspiring pharmacists learn how to make small
samples of specialty drugs not normally produced by drug companies. Make your own sample of
calamine lotion (for itchy skin). (School of Pharmacy, Northeastern University) (Driscoll teacher, Nora
Cullen)
Electronics Shop in Physics Lab. Visit an electronics shop that builds specialized equipment for
physics experiments. Solder together your own blinky light gadget that displays glowing messages in
mid-air. (Electronics Design Facility, Physics Department, Boston University) (Driscoll parent Eric
Hazen)
Chamistry Lab Find out how showists make malesules as nort of the sourch for now medicines
Chemistry Lab. Find out how chemists make molecules as part of the search for new medicines
to cure diseases such as cancer or malaria. See how chemists synthesize (put together) molecules
and create "chemical libraries." (Center for Chemical Methodology, Boston University) (Driscoll
parent John Porco)
Grade 6
Visualizing Drug Discovery – "Walk" in an immersive virtual reality 'cave' to observe proteins
and human brains. Experience how the liver and kidney handle drugs. See how a pharmaceutical
company designs and discovers the drugs used to treat human diseases. (Pfizers, Kendall Square)
(Driscoll parents: Jennifer Liras and Aditi Saxena)
(Driscon parents. Jennifer Ends and Marti Saxena)
Development Biology Lab. Visit a development lab and see how scientists use zebrafish to
understand how other animals (like humans!) grow. Take a look under the microscope at zebrafish
only one day old. These baby fish are see-through, so we can watch their developing heart and
blood, see them practice swimming, and see how their stripes form! (Zon Lab, Children's Hospital)
(Driscoll parent Bette Phimister)
Neuro-genetic Lab. What is a development neurological disease? Why do some children have
abnormal nervous systems? Visit a neuro-genetics lab and find out how scientist study the ways
nervous systemsnormal and abnormaldevelop and grow. Learn how their discoveries help
children with neurological diseases. (Sahin Lab, Boston Children's Hospital, Boston)
<b>Bone Lab</b> . How does the way bones and muscle move make a difference in disease and
healing? Visit a lab that studies the mechanics of bones and muscles. Learn how scientist are
helping people with cerebral palsy and arthritis. (Shelfelbine Lab, Northeastern University)
Archeology Lab How do we learn about the past if we have no written information about it?
Ask an archaeologist scientists who study dirt (and what's in it) to discover how people lived,
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worked, fought and played in ancient times. Visit an archeology lab and learn how to study dirt!
(Archeology Department, Boston University)
Lithium Battery Facility. What are lithium batteries are made of? Why do they last so long?
Visit a factory where people research, design, and manufacture safer, longer lasting batteries.
(A123 Systems, Waltham (Driscoll parent Lee Johnson)
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