

Department of Educational Support Services

Arts in Education

Spotlight

** BROOKHAVEN NATIONAL LABORATORY **



Brookhaven National Laboratory provides exciting opportunities to drive excitement for students and educators in science, technology, engineering and mathematics (STEM) by exploring Brookhaven Lab's research initiatives.

Build a Better Battery Through Chemistry

After an introduction to atoms, molecules, and chemical reactions, students design and perform an experiment that tests properties of metals and electrolytes for their potential as conductors for a wet cell battery.

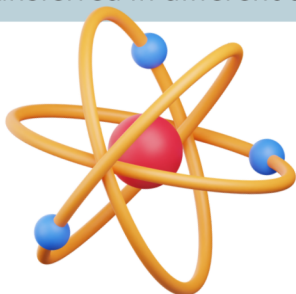
Encryption Cyber Security

BNL takes all safety very seriously, and that includes cyber security! In this lesson, students will learn about simple encryption and decryption of text files using a short C++ program. No coding knowledge is needed to enjoy this experience!



Collisions

Using marbles, students perform an experiment that models sub-atomic particle collisions in the Relativistic Heavy Ion Collider (RHIC). Students will make observations for analysis to learn about how energy is transferred in different types of collisions.



Detecting the Building Blocks of Matter, Discovering Solar Panels, DNA Analysis, DNA Extraction, Gene Transfer and Genetic Engineering, Nanotechnology and much more!



Details including contact information & pricing can be found along with similar programs in the Eastern Suffolk BOCES Arts-In Education online catalogue: artsined.esboces.org