

Talcott Mountain Science Center

Topic The Science of Magic

Home School Science

Instructor John Pellino

Home Links

Date Week 4, May 3, 2024

Here's some information about the activities your student did with us. Links at the bottom will help you explore further. Enjoy!

What did we do (content, skills, data collection)?

Levitation II - Superconductors

We investigated superconductors under extreme cold conditions to produce levitation
We practiced a practical effect to allow students to levitate off the ground in front of people.

Gimmicks I - Prepackaged

We investigated, tried, analyzed and rehearsed tricks with pre-packaged, bought "rigged" equipment

Cups & Balls

Literally, the oldest trick in the book - we viewed, analyzed, recreated, practiced and modified the "cups and balls" tricks -

How did we do it (materials & methods)?

Levitation II - Superconductors

We used liquid nitrogen to demonstrate the physical effects of extreme cold (-190 deg) on gas, liquid and solids, and then cooled a Yttrium-Barium-Copper Oxide disk to create a superconductor that can levitate a neodymium alloy magnet.

Gimmicks I - Prepackaged

We used the "eyes in back of the head" cube, expanding bag, created a \$1 raven rig, 3-card monte

Cups & Balls

We used professional cups sets and plastic cups sets, small "final loads" and created patter routines for these cups and balls tricks.

Where can we find out more?

<http://www2.tmsc.org/meissnerjp.mp4>

<https://www.youtube.com/watch?v=b6wpMFM3bQE>