

MAD-SCIENCE

3/11/20

Dr. Quinton Quark Presents: Much Work. . . Little Effort

Ever wondered how a single person can lift a car or throw something heavy, high in the air? Much Work. . . Little Effort was written and produced by



certified science teacher and formal Ringling Brothers performer, Ted Lawrence. Dr. Quark leads this amazing science assembly where kids learn that with physics, they can do anything! Hoisting 200 pounds (like their principal) over their heads, lifting 1000 pounds of classmates, or throwing the portly Dr. Quark 8 feet high is a matter of understanding Kinetic Energy, Potential Energy, Friction, and Simple Machines. Simple machines demonstrated will include pulleys, levers, and screws.

3/31/20 BOT! The Secret World of Robots

ROBOT... The mere mention of the word engages, enralls, entices and excites children of all ages. In order to meet the 21st century challenge of an emphasis on STEM/STEAM education (Science, Technology, Engineering, Arts and Math), three-time Parents' Choice Award- winning performer David Jack has created a fantastic new school assembly for elementary school students entitled BOT! The Secret World of Robots.

The show is chock full of audience participation, humor, and delivers information to students in a fun and interesting way. The show's co-star is none other than a virtual character named Cozmo, who leads the students on a high-tech adventure through the exciting world of robotics.

- Kids explore the work of "programming" robots through human vs. robot competition, while introducing age appropriate math concepts.
- Students meet virtual professionals to take an inside look at how robots are used in the workforce.
- "Bot" then takes students inside the NASA Curiosity Rover exploration program and shows how robots are making an impact on scientific exploration.



3/20/20- Science Tellers

“ALIENS: ESCAPE FROM EARTH”

During a meteor shower, something mysterious falls from the sky. Two curious kids venture into the forest to investigate and find themselves mixed up with visitors from another planet! Pursued by a zany space scientist, they must rescue the aliens and get them back to the spaceship. Throughout the intergalactic tale, we'll use science experiments as special effects like turning a liquid into solid “worms” through a chemical reaction, launching a potato into the air using Boyle's law, and transferring energy between matter to create a “rainstorm”. Your learners will discover the amazing world of physics and chemistry as they experience science in action!



COOL-OLGY LABS

WONDER, EXPLORE, DISCOVER!

Cool-ology provides hands-on inquiry based experiences aimed at getting kids really excited about science, engineering, STEM connections and the world around them. Cool-ology owner, Claudia Esposito, will lead each class through a 1 hour, hands on Lab in our STEAM room. In **Kindergarten Engineering Lab**, students will engineer a house for one of the three little pigs, a back scratcher for an itchy bear, and tower for a monkey escaping an alligator! First grade children will explore the world of air pressure, gravity and flight.



They will investigate the principles of gravity and flight that Newton made famous. Learning takes off as they engineer flying inventions of their own in **Come Fly Away Lab**. During the lab **What's the matter?**, second graders explore the chemical and physical changes of matter. Through fast paced, fun, hands-on activities, they will discover how molecules behave in different states of matter, and how the speed and density of these particles determine the differences between solids, liquids and gases! After examining animal traits and characteristics, third grade students will engineer their very own unique “designer” animals that can live in one of six specified biome habitats in **BIOMES- Alien Adaptations Lab**.

MAD-SCIENCE NIGHT

THURSDAY, MARCH 26

6:00-7:00pm

Featuring the Peabody Traveling Museum and Student Science Exhibits with Demonstrations

POSTERS ONLY to be brought in MORNING of 3/26. Demonstration materials should be brought to science night ONLY.