

2011 Roton Science Fair Ideas

Dan Scovel Brain Storm, 10/25/10

- Hanging from the ceiling
 - Scale model of the Space Shuttle (inflatable).
 - Disco ball with two pin lights.
 - Laser light show on the ceiling.
 - Double-helix formation (inflatable).
 - T-Rex skeleton (inflatable).
 - Scale model of planets in the Solar System.
- Projection Screens on walls
 - Science trivia slide show with multiple-choice answers
 - Historical figures (who was Galileo? Who was Hedly Lamar? Vincent Serf?)
 - Slide show listing careers, science fairs, science fair winners and their awards, resources (magazines and websites), scholarships, local museums, Nobel prize winners and sections, think tanks.
 - Intel Science fair, Robot Soccer competition, Robotic vehicle contest, Private rocket contest.
 - Running stream of partial video clips from popular shows and movies that include science and gadgets (think Star Trek, James Bond, Spy Kids, CSI, Dune, etc) including science fiction and mad scientists.
 - Running stream of science news and information videos. Think news reports, National Geographic segments, few-minute clips from other sources. Old IBM 'Power of Ten' video.
- Displays and demonstrations at the corners and along the walls
 - Spennato explosions from different compounds every several minutes.
 - Taxidermy display, animals and even human body cross sections (or at least pictures).
 - Science fiction display (movies, books).
 - Cool gadget display (iPod, iPhone, flat screen TV, spy cameras, whatever. . .)
 - Model rockets, airplanes, other hobbies.
 - Van de Graf generator.
 - Bomb squad outfit, astronaut outfit, infantry outfit.
 - Maze for robots. Lego robot display. Military robots and drones.
 - Technological advances of sporting goods and equipment.
 - Video game evolution.
 - Mars rover.
 - Google Earth workstation.
 - Mass of posters along the walls (airplane evolution, rocket evolution, weapon evolution, periodic table of the elements, spacecraft evolution, medical advances, frequency spectrum map, computer evolution, historical figures (Einstein, etc.), human evolution, solar system, galaxy pictures, star maps, inventions and innovations through time (printing press, wheel, air conditioning, ect.), scientific method, musical instrument evolution, economics, psychology, DNA, prosthetics, . . .
- Floor layout
 - Rows listed in alphabetical order by historical science figures (instead of just numbers). Each section for projects linked to a preeminent personality in that field.
 - Rumba robots randomly vacuuming the floor throughout the show. Other robots wandering around.
 - All volunteers and helpers wear lab coats/smocks.
 - Treasure hunt: complete the one-page form requiring finding answers all around the room, all perfectly correct quizzes are thrown into a pot for the chance to win iPod, iPhone, whatever.
- Curriculum synergy with other departments
 - Social Studies: history of science section.
 - Language Arts: Biography book report of historical figure of scientific significance.
 - Science: mandated project.
 - Math: hmmm . . . (maybe a section on binary number systems relating to computers . . .)