

2015 Science Camp Activities and Report

Engineering and Architecture

- Scientific Method
- Architecture Construction
- Tallest Tower
- Penny Bridges
- Wooden Bridges
- Lego Robotics
- Domino Fall



Biology

- DNA & Heredity
- Taxonomy
- Animal Bites
- Bones
- Body Measurements
- Heart Dissections & Suturing
- Forensics



Physics

- Bernoulli's Principal
- Aerodynamic Engineering
- Making Boomerangs
- Boomerang Demo
- Making and Racing Hovercrafts
- Riding Hovercrafts
- Solar System
- Force and Motion
- Simple Machines



Rocketry

- Air Rockets
- CO2 Rockets
- Rocket Cars
- Water Rockets
- Boomerang Testing & Painting
- Sun Spotter



Chemistry

- Polymers
- Styrofoam Science
- States of Matter
- Cryogenics
- Crayola Chemistry
- Party Time



"We are all scientists; we wonder, question and test our theories about the world. An understanding of science is nothing more than an understanding of ourselves"
Darryl Lee Baynes President & Founder ISP

Pre and Post Test Comparison

ISP prides itself on its level of informal science education. Our science programs in the summer provide an educational opportunity in a fun and entertaining way, (Edutainment). Edutainment is one of the most under-utilized strategies in education. To show the effectiveness of this strategy, ISP implemented a pre and posttest during our science camps to quantify the learning that took place during the week of camp.

Our pretest consisted of 10 questions that are administered on the first day of camp prior to any experiments being conducted. Our posttest is a duplicate of the pretest. The post test was administered on the last day of camp after all of the experiments were completed. These increases were achieved through a series of experiments conducted throughout the week of camp. The same rubric was used to score both pre and posttests during each week. The questions used for the tests change depending on the experiments planned for each week.

The following is the descriptive statistics of the comparison between the pre and posttests of the subject areas covered in the camps and the number of teachers participating in either professional development camps or helping with the student camps.

Science Camp Locations

Jackson, MS
Pittsburgh, PA

Hempstead, NY
Westboro, MA

Philadelphia, PA
Worcester, MA

STUDENT STATISTICS

Females 28.6%	Males 71.4%
Students 1,361	Teachers 69
Avg. Pre 15.4	Avg. Post 71.0

N=1,510
Parents 80
Difference 55.6

