

## Type of Camps

**General Science Camp:** This camp is designed to introduce students to a different science topic each day. The following is an incomplete list of activities.

Engineering: Architecture, Towers, Intro to Robotics, Building Bridges

Biology: DNA & Heredity, Taxonomy, Animal Bites, Heart Dissections

Physics: Astronomy, Bernoulli's Principle, Hovercrafts, Force & Motion

Chemistry: Polymers, States of Matter, Cryogenics, Crayola Chemistry

Rocketry: Air Rockets, Water Rockets, Rocket Cars, CO2 Rockets

**Engineering Camp:** This camp involves doing different engineering activities each day. The following is an incomplete list of activities.

Design, Make and Race a CO2 powered drag cars, Make and Test Various types of Bridges, Make and Test Various types of Towers, Building the Pyramids, Raising an Obelisk.

**Forensic Camp:** This camp involves understanding and participating in various forensic topics throughout the week. The following is an incomplete list of activities.

Blood Type and Blood Splatter, Hair Type and Hair Analysis, Finger Prints and Finger Print Analysis, Lip Prints and Lip Print Analysis, Crime Scene Investigation, Party Time, Breaking Bones.

**Biology Camp:** This camp involves understanding and participating in various biology topics throughout the week. The following is an incomplete list of activities.

Heart Anatomy, Dissection, Wound Suturing, Taxonomy, Animal Bites, Liver Function and Salt Concentration, DNA and Heredity, Bone Anatomy and Breaking Bones.

**Chemistry Camp:** This camp involves understanding and participating in various biology topics throughout the week. The following is an incomplete list of activities.

Polymers, Water the Universal Solvent, States of Matter, Cryogenics, Crayola Chemistry, Party Time, Acids and Bases, Trends in the Periodic Table.

**Physics Camp:** This camp involves understanding and participating in various physics topics throughout the week. The following is an incomplete list of activities.

Making and Racing Hovercrafts, Riding Hovercrafts, Solar System, Comet in the Classroom, Force and Motion, Simple Machines.

**Aviation Camp:** This camp involves understanding and participating in various aviation topics throughout the week. The following is an incomplete list of activities.

Bernoulli's Principle, Airplane Design, Making Boomerangs, Flying Boomerangs, Painting Boomerangs, Boomerang Competition, Paper Airplanes, Aircraft Weight and Balance.

**Math Camp:** This camp involves understanding of the history of math and various math topics throughout the week. The following is an incomplete list of activities.

History of Math, Mega Penny Project, Statistics of Sports, Power of 10, What is Nano, Math Puzzles, Math of the Human Body.

**General Science of Sports Camp:** These camps are designed to cover many sport in a week setting. Each day will be an emphasis on the science of a particular sport with the attendees performing all of the sport activities that they may have seen on ESPN's Sport Science. Some of these sports include: Football, Basketball, Baseball, Tennis and Golf. Attendees will receive a CD or Flashdrive with videos, pictures and their statistics in the activities.

**Specific Science of Sport Camp:** These camps are designed to cover a specific sport in a week setting. Each day will be an emphasis on different aspects of different parts of a specific sport with the attendees performing all of the sport activities that they may have seen on ESPN's Sport Science. Some of these sports include: Football, Basketball, Baseball, Tennis and Golf. An example of different aspects include such considerations as: power, agility, accuracy, physical attributes, equipment, etc. Attendees will receive a CD or Flashdrive with videos, pictures and their statistics in the activities.

**Educational General Science of Sports Camp:**

**Educational Specific Science of Sports Camp:**

These camps are designed just like the other camps with one exception. In these camps the students use math and science to calculate their own values and generate their own statistics from the activities they participate in. The math and physics used in these calculations vary from the middle school to high school level. The rest of the program is the same as that described above.

**Teacher Camps:**

ISP offers a variety of science camps for teachers to help them better deliver STEM curriculum in an inquiry based framework connected to the Common Core and the Next Generation Science Standards (NGSS).