A New Spin on Education

NASTAR Center Education Programs

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Educational Services
What is the NASTAR Center?

- Wholly Owned Subsidiary of ETC
- Private Sector Facility
- World Class Training
- State of the Art Equipment
- FAA Safety Approved
- Emphasizes Training, Research and Education
Equipment
NASTAR Training Programs

Suborbital Participant Training Program
NASTAR Training Programs

Suborbital Scientist Training Program
Summer 2010 STEM Programs

NASTAR Camp
Experiencing Newton’s Laws of Motion
NASTAR Camp

• 5 Days
• Grades 4 – 6 and 7 - 8
• Five Sessions
• 103 Students
• Aviation and Space
Activities

Parachutes
Paper Airplanes
Card Stock Models
Balloon Powered Cars
Soda Can Hero Engine
Puff Rockets
Stomp Rockets
Altitude Tracker
Bell X-1 Glider
Spirit of St. Louis Glider
Jet Stream Powered Glider
Eagle Balsa Glider
Design a Space Suit
Space Shuttle Glider
Airplane Parts
Weather Vane
Forces of Flight

Aircraft Simulator
Touchdown!
Videos
Cayley 1804 Glider
Lilienthal 1895 Glider
Aero Props
Anemometer
Cloud Identifier
Lockheed Vega Glider
Canard Glider
Loop Glider
Boyle’s Law Demonstration
Charles’ Law Demonstration
Paper Gyrocopters
Kites
Suborbital Space Flight
Bernoulli’s Principle
Parachutes
Airplanes and Gliders
Flight Simulator
Weather
Helicopters
Famous Personalities
Rockets
Touchdown!
Suborbital Simulation
Student and Parent Reaction
Experiencing Newton’s Laws of Motion

- Enhanced teacher understanding of the Laws of Motion through hands-on experiences
- Culminated with a suborbital flight experience
- Approved by PA Dept. of Education for 15 teacher continuing education hours
- 2-day program
Participant Mission Kit

• Flight Suit
• Flight Manual
• Supplies
• CD-ROM with Resource Materials
• DVD of Flight
Topics

- Laws of Motion
- Acceleration
- Motion Physiology
- Rockets
- Spatial Disorientation
- Gas Laws
- Human Body in Flight
Hands-on Activities
Activities Included
More Activities
Gyroflight
You want me to do WHAT?
Phoenix STS-400
Space Flight Profile
STS-400 Flights
Review of Resources

CD-ROM contained
20 NASA and FAA
Educational Publications
Teacher Reaction

“This program is out of this world!”

“Not to be missed”

“It provides awesome experiences that relate directly to the classroom.”

“Certainly the most amazing teaching experience I’ve ever had.”
Questions and Discussion