Baker Middle School
To the Moon, Mars and Beyond
Disclaimer

• The programs, field trips, grants, and achievements of the NASA Explorer Schools program mentioned in this presentation involve Baker Middle School. Availability of programs may have changed. Please contact your local NES representatives in your state for more information.
NASA Explorer Schools

- Three year partnership between NASA and the school
- $17,500 technology grant distributed over three years
- Countless professional development opportunities for teachers, along with a yearly stipend for NES Team Members
Baker Middle and NES Programs

- E-Missions
- Challenger Center Visits
- FMALive!
- Stennis Space Center Visit
- NES Symposium
- Summer Teacher Orientation
- Content Area Summer Training
- Sustainability Summer Training
E-Missions

- Students are given two hours of stress. ... a hurricane is coming and a volcano will erupt at any time!
- Decisions, Decisions!
Challenger Center Visit

• Students feel like they are in Mission Control with an authentic job in programs named, Return to the Moon, Earth, and Halley’s Comet.
• Stennis, Mississippi is toured by our 8th Graders each year. They get a chance to see the stars and learn about history.
Each year, hundreds of students gather to be introduced to the new NES schools. In addition, students get a chance to share their ideas with scientists who rate their presentations.
Everything to Make a Good Brew

• By attending all of the conferences and workshops, teachers get a chance to see all types of learning and gain all types of ideas for the classroom:

  • Field Trips
  • Video Contests
  • Writing Contests
  • Rocketry and Robotics
Grants, Anyone?

Surveying St. Francisville
- Science—Land forms and climate
- Technology—Video Production
- Engineering—Art Projects
- Mathematics—Word problems
- Geography—Where is St. Francisville?

Michael Jordan Fundamentals
- Science—Motion
- Technology—Production of Baker Middle Minute
- Engineering—Robotics
- Mathematics—Baker Middle Math Minute
- Geography—Weather Forecasts
Teacher Training

• NASA Content Professional Development Workshops
  – Robotics, Satellites, Geography...

• Sustainability and Grant Writing
Aerospace Professional Development

- Louisiana State University, Cain Center, Project Science I, Summer and Fall 2006
- Texas Space Grant, “Return to the Moon,” July 2006
- Oklahoma Mission to Planet Earth, Summer 2007
- Oklahoma State University, Distance Courses, Summers 2004 and 2005
Additional Certifications

• The courses that you take can add Aerospace Education (if available in your state).
PRESENTATIONS

- Louisiana Computer Using Educators
- Louisiana Science Teachers Association
- John Henry Scott Scholarship Program
- FIRST Robotics National Conference
- National Science Teachers Association
Writing Experience

Countless articles in *The Advocate*.

- Contributing Writer for the following: *Baker Observer, Banner Democrat*, and the *Indian Reservation.*
Grant Writing

- Heritage Education, NCPTT
- FLL, Motorola Grant
- Challenger Center Travel Grants
- Michael Jordan Fundamentals
- University of Houston, McNair Robotics Award
Corporate Sponsorships

- Coca-Cola
- Louisiana FIRST Robotics
- Northwestern State University
- University of Houston
- Southern University
- Honeywell
- Exxon Mobil
Louisiana Space Grant

- Robotics Equipment
- School Supplies for Students of Katrina
- Funding for Challenger Center Field Trips and Teacher Training
- Funding for Texas Space Grant, Return to the Moon Program

- Kjohnson@phys.lsu.edu
Texas Space Grant

• Return to the Moon Program
  • One week of professional development
  • Visits to museums, workshops and lectures
  • Information on Robotics
  • Grant Writing Tips
  • Networking for teachers

• Margaret Baguio, Coordinator
Robotics, Video, and Computer Technology
Giving Expert Advice
At a competition...
Getting Help from St. Nick
Winning feels good!
Our awards...
NASA Explorer Schools
Projects at Baker Middle

- E-Missions
- Challenger Center Visits
- Stennis Space Center Field Trip
- NES Symposium
- FMALive!
- Hot Air Balloon Challenge
- Return to the Moon Challenge
- Lights, Camera, Action! Video Challenge
NASA Centers

- Johnson Space Center, Symposium
- Goddard Space Center, Summer Training
- Marshall Space Flight Center, Sustainability Workshop
- Stennis Space Center, Field Trip
Helpful Websites

• John Scott Memorial
  • [http://www.jhsfund.org/news.htm](http://www.jhsfund.org/news.htm)

• Heritage Education

• Texas Space Grant Lift-Off

• Aerospace Education Services Program
  • [http://www.okstate.edu/aesp/AESP.html](http://www.okstate.edu/aesp/AESP.html)
Is this the end... or a new beginning?
Other Activities at Baker Middle

• The NASA Explorer Schools program has gotten teachers energized to look for alternatives to the regular classroom experience. . .
Field Trips

New Orleans
• Cooking School
• Aquarium
• IMAX Movie, Hurricane on the Bayou

Layton Farms
• Petting Zoo
• Cattle Range
• Milk Production
• Economics Lessons
Dava Powell

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