National Aeronautics and
Space Administration

Langley Research Center
Hampton, VA 23681-2199

Educational Product	
Educators	Grades 6-8

EP-2002-07-10-LARC

NASA CONNECT™

Television Broadcast

Web Activity

Educator Guide

NASA CONNECT™ is a research and standards-based annual series of **FREE** integrated mathematics, science, and technology instructional distance learning programs for students in grades 6-8. Each program in this Emmy® award-winning series has three components: (1) a 30-minute television broadcast, which can be viewed live or taped for later use; (2) companion educator's guide, including a hands-on activity; and (3) an interactive web activity which provides educators an opportunity to integrate technology in the classroom setting. These three components — television broadcast, web activity, and educator guide — are designed as an integrated instructional package.

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INSPIRE YOUR STUDENTS WITH NASA CONNECT

1 Register

Register for NASA CONNECT™ online, connect.larc.nasa.gov

2 Access

NASA CONNECT™ airs on many PBS and ITV stations, can be down linked from satellite, or obtained as a video from NASA ERCs and NASA CORE. Visit the web site to download the lesson guides and locate the web activities.

3 Integrate

Integrate the television broadcast, hands-on activity, and web activity into your classroom to enhance and extend your curriculum.

Endorsed by nctm.org

connect.larc.nasa.gov

Check on the back for a list of programs in the 2002-2003 NASA CONNECT™ series and for more information about obtaining the programs.

Inspiring the next generation of explorers as only NASA can.

NASA CONNECT™
2002-2003 Season

1 Register

Register online at connect.larc.nasa.gov

2 Access

How can I get the television broadcast?

- The programs are uplinked in KU and C-band. The satellite coordinates are listed on the NASA CONNECT™ web site.
- NASA CONNECT™ programs air on PBS, NASA TV, Channel One, and on many Cable Access Channels. Check our web site for viewing in your locality.
- Programs are available on the web through NASA's Learning Technologies Channel, **http://quest.arc.nasa.gov/ltc/special/connect/index.html**.
- Video copies of the broadcast can be obtained from the NASA Educator Resource Center in your state, **http://education.nasa.gov/ercn**, or from the NASA Central Operation of Resources for Educators, **http://core.nasa.gov**.

Visit the web site, http://connect.larc.nasa.gov to download the lesson guides and access the web activities.

3 Integrate

Integrate NASA CONNECT™ into your classroom to enhance and extend your curriculum.

GEOMETRY AND ALGEBRA: The Future Flight Equation (R)

Starts airing: Sept. 26, 2002, 11- 11:30 a.m. EDT

NASA engineers and researchers use geometry and algebra to design, develop, and test aircraft.

Mathematics Standards: Algebra, Geometry

Science Standards: Science as Inquiry, Physical Science, Science and Technology

Technology Standards: Nature of Technology, Design

The Centennial of Flight Special Edition: PROBLEM SOLVING: The "Wright" Math

Starts airing: Oct. 17, 2002, 11- 11:30 a.m. EDT

NASA engineers and researchers use problem-solving skills to develop advanced aerospace vehicles .

Mathematics Standards: Problem Solving

Science Standards: Science as Inquiry, Science and Technology, History and Nature of Science

Technology Standards: Technology and Society, Design, Abilities for a Technological World

DATA ANALYSIS AND MEASUREMENT: Having a Solar Blast! (R)

Starts airing: Nov. 21, 2002, 11- 11:30 a.m. EST

NASA engineers and researchers use data analysis and measurement to predict solar storms, anticipate how they will affect the Earth, and improve our understanding of the Sun-Earth system.

Mathematics Standards: Data analysis, Measurement

Science Standards: Science as Inquiry, Earth and Space Science, Science and Technology, History and Nature of Science

Technology Standards: Nature of Technology, Technology and Society

MEASUREMENT, RATIOS, AND GRAPHING: Who Added the "Micro" to Gravity?

Starts airing: Dec.12, 2002, 11- 11:30 a.m. EST

NASA researchers and scientists use measurement, ratios, and graphing to demonstrate the principles of microgravity.

Mathematics Standards: Measurement, Ratios, Graphing

Science Standards: Science as Inquiry, Physical Science, Science and Technology

Technology Standards: Nature of Technology, Technology and Society

FUNCTIONS AND STATISTICS: Dressed for Space (R)

Starts airing: Jan. 23, 2003, 11- 11:30 a.m. EST

NASA engineers and researchers use functions and statistics to create the next generation of spacesuits for the International Space Station and beyond.

Mathematics Standards: Functions, Statistics

Science Standards: Science as Inquiry, Science and Technology, History and Nature of Science

Technology Standards: Design, Abilities for a Technological World

Special Edition: WORLD SPACE CONGRESS 2002: The New Face of Space

Starts airing: Feb. 20, 2003, 11- 11:30 a.m. EST

The World Space Congress 2002 is the "meeting of the decade for space professionals." From the discovery of distant planets to medical advancements, from geological exploration to urban planning, from water on Mars to energy sources in developing nations, you'll find it all here.

Mathematics Standards: Problem Solving

Science Standards: Science as Inquiry, Earth and Space Science, Science and Technology, History and Nature of Science

Technology Standards: Technology and Society

MEASUREMENT, RATIOS, AND GRAPHING: Safety First (R)

Starts airing: Mar. 20, 2003, 11- 11:30 a.m. EST

NASA engineers and researchers use measurement, ratios, and graphing to maintain aviation safety and to develop new technologies to meet the growing demands – keeping you safe in tomorrow's skies.

Mathematics Standards: Measurement, Ratios, Graphing

Science Standards: Science as Inquiry, Science and Technology, Science in Personal and Social Perspectives

Technology Standards: Nature of Technology, Technology and Society

DATA ANALYSIS AND MEASUREMENT: Dancing in the Night Sky

Starts airing: April 10, 2003, 11- 11:30 a.m. EST

NASA engineers and researchers use data analysis and measurement to study the auroras, key regions of the Earth's geospace or space environment.

Mathematics Standards: Data Analysis, Measurement

Science Standards: Science as Inquiry, Earth and Space Science, Science and Technology

Technology Standards: Nature of Technology, Technology and Society

FESTIVAL OF FLIGHT SPECIAL: Opening Space for Next Generation Explorers

Starts airing: May 15, 2003, 11- 11:30 a.m. EST

NASA's Space Launch Initiative (SLI) Program will ultimately move the nation from the explorations of the Mercury, Gemini, Apollo, and Space Shuttle missions to a new period of pioneering when people and businesses are more routinely traveling, working, and living in space.

Mathematics Standards: Algebra, Geometry, Problem Solving

Science Standards: Science as Inquiry, Physical Science, Science and Technology

Technology Standards: Nature of Technology, Design

(R) Indicates a repeat program from the 2001-2002 season.