



# *Everyone's A Winner With SSiP!*

**NASA/NSTA SPACE SCIENCE STUDENT INVOLVEMENT PROGRAM**



National Aeronautics and  
Space Administration

Office of Human Resources  
and Education  
Education Division

Educational Program

Teachers  
& Students

Grades  
3-12

## *SSiP...More Than A Competition*

The NASA/NSTA Space Science Student Involvement Program (SSiP)  
is **EDUCATION AT ITS BEST!**

More than a competition, SSiP models implementation of teaching, content, and assessment standards.

The five student competitions described in this brochure reinforce expectations sought in educational reform. Integration of subject matter content, use of creative and higher order thinking skills, individual and cooperative team participation, and inquiry-based learning experiences are strengths that these programs bring to the classroom.

Incorporated into the curriculum, the competition proposals can serve as authentic assessments and become part of the portfolios of the participants.

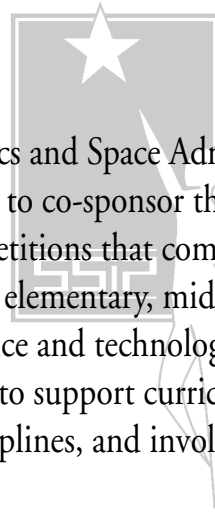
SSiP models good teaching and learning practice—it is more than a competition!



**ATTENTION! STUDENTS & TEACHERS GRADES 3-12**

# WHAT IS SSIP?

In 1980, the National Aeronautics and Space Administration and the National Science Teachers Association teamed up to co-sponsor the Space Science Student Involvement Program (SSIP). The five competitions that comprise SSIP are designed to foster greater scientific literacy among elementary, middle, and high school students, especially in the areas of aerospace science and technology. Thousands of teachers throughout the United States successfully use SSIP to support curricular goals, spark student interest, encourage creative thinking across disciplines, and involve students in science process skills.



## HOW TO ENTER

All entries **MUST** follow the rules below:

### OFFICIAL ENTRY FORM

Submit a clearly legible (preferably typed) entry form with your entry. The form must be signed by you (the entrant), your parent/guardian, and your teacher/advisor. If entering a team competition, all team members must sign the entry form. The signature on the entry form verifies that the project is of original design. Mail your entry according to the directions below.

### MAILING

*Mail all entries to:*

National Science Teachers Association  
Attention: SSIP Competition  
1840 Wilson Boulevard  
Arlington, VA 22201-3000

*Indicate the appropriate SSIP competition (i.e., Mars, Intergalactic Art, etc.) on the envelope.*

### DEADLINE

All entries **MUST BE RECEIVED BY** JANUARY 10. Late entries will not be accepted. Material sent by FAX will not be accepted.

### WRITTEN DESCRIPTION

Follow the **rules** for each individual contest.

### CONTEST RULES

- 1** All entries **MUST** be accompanied by a completed entry form.
- 2** Only **ONE** individual or **ONE TEAM** entry may be listed on each entry form.
- 3** Names must appear **ONLY** on the entry form, not on any other part of the written document.

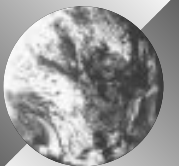
- 4** Each student or team must have a teacher/advisor to serve as sponsor.
- 5** All entries must be typewritten.
- 6** The judges' decisions are final.
- 7** All entries become property of NASA/NSTA/ SSIP.
- 8** Past First Place National Winners and Mars National Semi-Finalists may not enter a competition they have previously won.
- 9** Each entry must be the student's original work. No copyrighted materials may be used, such as characters from comic books or television.

**NOTE:** Rules will be strictly enforced. Entries not conforming to rules will be disqualified.

### INSTRUCTIONS TO THE TEACHER

- 1** Each student or team must have a teacher/advisor to serve as sponsor.
- 2** The teacher/advisor must fill out the evaluation questionnaire included in the brochure to receive certificates for all student entries. It is not necessary to send more than one questionnaire if you have more than one student entry.
- 3** The project entry form must be filled out correctly and completely. It must be signed by the student (or all team members), the parent/guardian, and the teacher/advisor.
- 4** Names must appear **ONLY** on the entry form, not on any other part of the written document.
- 5** Please review your student's work carefully to ensure all requirements (including multiple copies) have been met to prevent disqualification.

To confirm receipt of your entry, include a stamped, self-addressed postcard with your entry.



# INTERGALACTIC ART

**I**magination is a fantastic tool, used to develop new concepts and to explore the unknown. Consider traveling through space. What would you see from your spacecraft?

Students use creative, artistic skills to depict a scene from intergalactic space, known or unknown. This can include—but is not limited to—planets, moons, asteroids, meteoroids, comets, and nebulae in our solar system and beyond.

## RULES

- The art composition is done by one individual.
- The entry must be the student's original work. No copyrighted materials may be used, such as characters from comic books or television.
- All instructions must be followed or entry will be disqualified for judging.

## THE ART

- Use standard art methods to create an original two-dimensional illustration. The entry must be on sturdy unmounted art or poster board that measures 16" x 20", unframed. The suggested media to be used in creating your illustration are paint, marker, colored pencil, crayon, watercolor, pastels, acrylic, ink, pencil and computer graphics.
- Label the art **ON THE BACK** in the upper right corner, with the student's name, grade, teacher's name, and school's name, address, and telephone number. No other information is to be placed on the back of the artwork.

## THE DESCRIPTION

- Submit a written description explaining the illustration and how you, the artist, arrived at the concept. Describe in detail the scientific composition of where you are and what you are seeing. The description must be no less than two (2) and no more than (5) paragraphs, one (1) page maximum, typed on a separate sheet of white unlined 8½" x 11" paper.
- Attach the typed original and two (2) photocopies of the description to the entry form. Your name should appear only on the entry form, not on the description.

## MAILING

- Mail flat—do not roll or bend the artwork. Do not staple, tape, or glue the entry form to any part of the artwork. The entry form and description must accompany the artwork.

## JUDGING CRITERIA (Total of 50 points)

### THE ART

#### POINTS

- 15** Craftsmanship, composition, neatness, skill with media
- 10** Originality
- 10** Content of the illustration

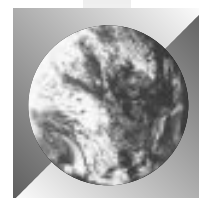
### THE DESCRIPTION

#### POINTS

- 10** Content of the written description
- 5** Grammar, clarity, spelling, neatness

## AWARDS

- First Place National Winners receive an all-expenses paid trip to Space Camp.
- Grades 3–12 National Winners and teacher/advisor receive an all-expenses paid trip to the National Space Science Symposium in Washington, DC.
- National and State winning entries will be exhibited nationwide.
- Prizes are given to State Winners.
- All students who qualify receive certificates of participation.



GRADES

3-12

# FUTURE AIRCRAFT/SPACECRAFT DESIGN COMPETITION

Every invention was born in someone's dreams. Students work in a team using creative, artistic, and written skills to illustrate and explain an original design of a futuristic aircraft or spacecraft.

## RULES

- The design team **MUST** consist of 3 or 4 students.
- The entry must be the students' original work. No copyrighted materials may be used, such as characters from comic books or television.
- All instructions must be followed or entry will be disqualified for judging.

## THE DESIGN

- Use standard traditional art methods to create three (3) original two-dimensional illustrations of a futuristic aircraft or spacecraft. The two-dimensional illustrations should consist of the following:
  1. a complete view of the craft
  2. a schematic view of the craft's interior
  3. a drawing of your choice that best illustrates a special function you may want to highlight
- Each two-dimensional illustration must be on sturdy unmounted art or poster board that measures 8½" x 11", unframed. The suggested media to be used in creating your illustration are paint, marker, colored pencil, crayon, watercolor, pastels, acrylic, ink, and pencil.
- Label the art **ON THE BACK** in the upper right corner, with the students' names, teacher's name, and school's name, address, and telephone number. No other information is to be placed on the back of the artwork.

## THE DESCRIPTION

- Submit a written description explaining the illustrations and how design team arrived at their design concept. Describe in detail the type of craft, size, shape, materials used, destination, its mission, and value to humankind.
- The description may not contain more than 1000 words. All descriptions must be typed, double-spaced on white unlined 8½" x 11" paper. Each page must be numbered.

## MAILING

- Attach the typed original and two (2) photocopies of the description to the entry form. The names should appear only on the entry form and the back of the illustration, not on the description. The entry form and description must be mailed with the illustrations.

## JUDGING CRITERIA (Total of 50 points)

### THE DESIGN

#### POINTS

- 15** Content of the illustration
- 10** Craftsmanship, composition, neatness, skill with media
- 10** Originality

### THE DESCRIPTION

#### POINTS

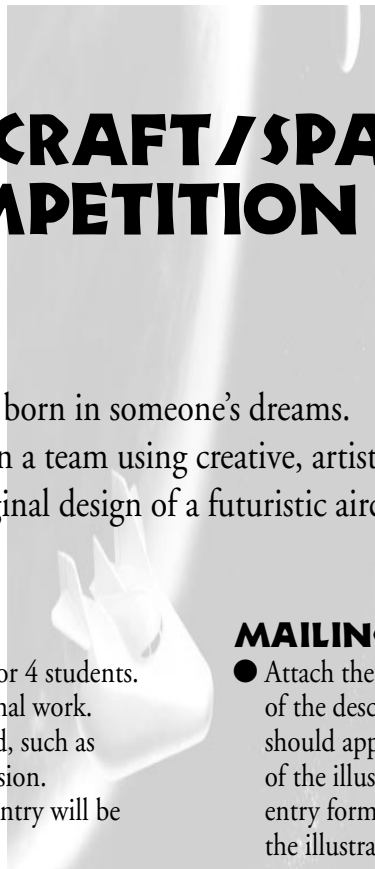
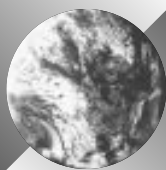
- 10** Content of the written description
- 5** Grammar, clarity, spelling, neatness

## AWARDS

- First Place National Winners receive an all-expenses paid trip to Space Camp.
- National Winners and teacher/advisors receive an all-expenses paid trip to the National Space Science Symposium in Washington, DC.
- Prizes are given to State Winners.
- All students who qualify receive certificates of participation.

GRADES

3-5





# MISSION TO PLANET EARTH

**M**ission to Planet Earth is a comprehensive program to study the Earth from space using satellite and remote sensing technology. Through this program, we hope to establish a strong scientific understanding of the Earth's environmental systems by studying the physical, chemical, biological, geological, and social processes that affect our planet. Scientists can use this information to understand what we as a species are doing to our planet and how to solve future environmental issues.

Your mission is to investigate the effect of human activity on the Earth's ecosystem, then develop a plan for an interdisciplinary program, using satellites, to address one of the planet's environmental dilemmas.

## RULES

- The design team **MUST** consist of 3 or 4 students.
- The entry must be the students' original work. No copyrighted materials may be used, such as characters from comic books or television.
- The project should be formatted with sections subtitled exactly as follows:

1. **Entry Form**
2. **Title Page**
3. **Abstract**—A concise statement, 100 words or less, describing the overall proposal.
4. **Mission Plan**—In your Mission Plan, include and label:
  - A.) **Analysis of Problem**—Which human activities are most likely to cause global change? Given limited funds, which factors affecting the Earth's ecosystem should be studied first?
  - B.) **Experimental Design**—What problem(s) or factor(s) affecting the Earth's ecosystem will be investigated? What is the hypothesis? What data are needed? How will it be collected? For space-based observations consider the following: the number of satellites; type of instruments; type of orbit; and length of time in orbit.
  - C.) **Plan for the Future**—How can we reduce the impact of human activity? How do we get the population to agree to the changes? How do we avoid economic and social problems?
5. **Bibliography**—List all literature and other sources used in developing your project.

- The Mission Plan (Analysis, Experimental Design, and Plan for the Future) may not contain more than 1500 words total. All projects must be typed, double-spaced on white unlined 8½" x 11" paper. Each page must be numbered.

- All instructions must be followed or entry will be disqualified for judging.

## MAILING

- Attach the typed original and two (2) photocopies of the project to the entry form. The students' names should appear only on the entry form. No reference to the student or location should appear in the project.

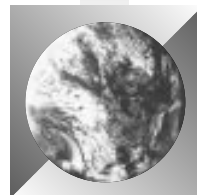
## JUDGING CRITERIA (Total of 50 points)

### POINTS

- |           |   |
|-----------|---|
| <b>15</b> | Scientific validity and critical thinking         |
| <b>10</b> | Creativity and originality                        |
| <b>10</b> | Organization, clarity, and appropriate references |
| <b>10</b> | Suitability of the Mission Plan                   |
| <b>5</b>  | Grammar, syntax, and spelling                     |

## AWARDS

- First Place National Winners receive an all-expenses paid trip to Space Camp.
- National Winners and teacher/advisor receive an all-expenses paid trip to the National Space Science Symposium in Washington, DC.
- Prizes are given to State Winners.
- All students who qualify receive certificates of participation.



GRADES

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# AEROSPACE INTERNSHIPS

Students propose and write experiments that could theoretically be performed at one of the following NASA facilities:

## SUPERCOMPUTER

The internship will take place at NASA Ames Research Center in Moffett Field, CA, where the Numerical Aerodynamic Simulation (NAS) computer is located.

Possible research areas:

**Parallel Computing**—to include parallel architectures, computation algorithms, and languages.

**User Interfaces**—to include environment tailoring visualization, grid generation, and result data analysis.

**Computing Systems Research**—to include communications, storage, distributed processing, and data management.

For brief background information, contact:

NASA Ames Research Center  
Educational Programs Office  
Supercomputer Internship Project  
Mail Stop TO 25  
NASA Ames Research Center  
Moffett Field, CA 94035

## MICROGRAVITY

The internship will take place at NASA Lewis Research Center in Cleveland, OH, where the drop tube zero gravity research facility is located.

The 145 meter drop tube facility supports research and development programs that investigate various physical sciences, materials, fluid physics, and processing systems. Proposed experiments must be designed to be conducted in a cylindrical experiment capsule for a drop duration of up to 5 seconds.

For brief background information, contact:

NASA Lewis Research Center  
Educational Programs Office  
Attn: SSIP Internship  
Mail Stop 7-4  
NASA Lewis Research Center  
Cleveland, OH 44135

## WIND TUNNEL

The wind tunnel testing facility is located at NASA Langley Research Center in Hampton, VA, where your internship will be conducted.

The wind tunnel is 30 feet high and 60 feet wide (9 meters by 18 meters) and is capable of generating wind speeds of up to 100 mph.

For brief background information, contact:

NASA Langley Research Center  
Center Education Programs Officer  
Attn: SSIP Internship  
Mail Stop 400-A  
NASA Langley Research Center  
Hampton, VA 23681-0001

## SPACE STATION

The Space Station internship will take place at NASA Johnson Space Flight Center in Houston, TX.

Proposals should include unique variables found in space and the space station environment such as microgravity, radiation, and the space vacuum.

For brief background information, contact:

NASA Johnson Space Flight Center  
Educational Programs (AP 4)  
Attn: SSIP Internship  
Houston, TX 77058

## SPACELAB

The Spacelab internship will take place at NASA Marshall Space Flight Center in Huntsville, AL.

Proposed experiments should be designed to take place in the pressurized Spacelab module, or on an unpressurized pallet, both of which are

mounted in the cargo bay of the Space Shuttle orbiter. Experiment proposals could take advantage of the microgravity environment, space vacuum, unique Earth or astronomical observation capabilities. Possible research areas may include biotechnology, metals and alloys, fluid dynamics and transport phenomena, electronic materials, and atmospheric or astronomical observations.

For brief background information, contact:

NASA Marshall Space Flight Center  
Educational Programs  
Attn: SSIP Internship  
Mail Code CA 21  
Huntsville, AL 35812

## SPACE ASTRONOMY

The internship will take place at the NASA Goddard Space Flight Center in Greenbelt, MD, with astronomers in the Laboratory for Astronomy and Solar Physics. This laboratory conducts a broad program of research in observational and theoretical astronomy and solar physics.

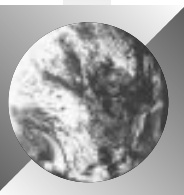
Observational programs, including technology and instrument development, span the spectral range from X-ray to radio wave lengths. Astrophysical phenomena of the Sun and stars are studied with emphasis on their structure, origin, and evolution.

Proposed experiments should consider using data from spacecraft such as the Hubble Space Telescope (HST), the International Ultraviolet Explorer (IUE), the Cosmic Background Explorer (COBE), the Infrared Astronomical Satellite (IRAS), the Astro Spacelab Ultraviolet Imaging Telescope (UIT), and the Solar

*continued* ➤

GRADES

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Maximum Mission (SMM). Data from these spacecraft, which are not proprietary and are now in the public domain, along with appropriate computation facilities and mentors will be made available to winning student proposer during the internship at the Goddard Space Flight Center.

For brief background information, contact:  
NASA Goddard Space Flight Center  
Educational Programs Office  
Code 130  
Greenbelt, MD 20771

## LAUNCH OPERATIONS

The internship will take place at the Kennedy Space Center (KSC) in Florida.

Proposals should be directed toward the primary work performed at KSC: the preparation of payloads and their launch on the Space Shuttle. Proposals should account for variables unique to spacecraft, such as necessity to compress large items for launch, automated expansion to full size in space, ability to

withstand extreme stresses of launch in compressed configuration, and constraints on equipment which operate in microgravity and high vacuum of space. For smaller items of flight hardware, usually not compressed, proposed experiments should include a release mechanism or method of operating in space. All proposals are theoretical, since actual space flights to test concepts are not available.

For brief background information, contact:  
NASA Kennedy Space Center  
Educational Services Branch  
Mail Code PA-ESB  
Kennedy Space Center, FL 32899

## SPACE TELEROBOTICS

The internship will take place at the NASA Jet Propulsion Laboratory (JPL) in Pasadena, CA with engineers in the microrover laboratory. A central technological thrust at JPL is telerobotics, which merges robotics and teleoperations capabilities, enabling the technology necessary for operational space

deployment of future telerobotic systems.

The internship will be in the area of unmanned mobile robots and microrovers for lunar and planetary surface exploration, outpost site certification, and long-range manned exploration, science and resource utilization. Specific emphasis will be placed on microrovers (<12Kg) for planetary surface exploration. The rover is a six-wheeled vehicle with a jointed frame that allows all wheels to remain in contact with rough terrain. Students propose a novel design for a vehicle with supporting estimates of its mobility, (tip-over stability, ground clearance, ability to climb over objects) and simplicity (number of motors, rotating joints, sliding joints, etc.).

For brief background information, contact:  
NASA Jet Propulsion Laboratory  
Public Education Office  
Mail Code 180-205  
4800 Oak Grove Dr.  
Pasadena, CA 91109

## RULES

- Entry must be the work of one individual.
- Each project should be formatted with sections subtitled exactly as follows:
  1. **Entry Form**
  2. **Title Page**
  3. **Abstract**—A concise statement, 100 words or less, describing the overall proposal
  4. **Introduction**
  5. **Description of problem/hypothesis**
  6. **List of materials essential to the experiment**
  7. **Procedures**
  8. **Analysis of data collected in experiment**
  9. **Bibliography**
- The entry must be the student's original work. No copyrighted materials may be used, such as characters from comic books or television.
- The body of the proposal (description, materials, procedures, analysis) may not contain more than 1000 words total. All proposals must be typed, double-spaced on white

unlined 8½" x 11" paper. Each page must be numbered.

- Note: Student's proposed experiment will not be conducted at the NASA Center during the internship period. However, student will be able to observe scientists conducting experiments already in progress.
- All instructions must be followed or entry will be disqualified for judging.

## MAILING

- Submit the typed original along with two (2) photocopies of the project attached to the entry form. The student's name should appear only on the entry form. No reference to the student or location should appear in the proposal.

## JUDGING CRITERIA

(Total of 50 points)

### POINTS

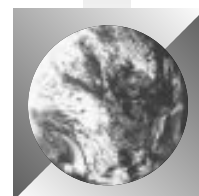
- 15** Scientific validity and critical thinking
- 10** Suitability of experimental design

### POINTS

- 10** Creativity and originality
- 10** Organization, clarity, and appropriate references
- 5** Grammar, syntax, and spelling

## AWARDS

- National Winners and teacher/advisor receive an all-expenses paid trip to the National Space Science Symposium in Washington DC.
- First Place National Winners of each competition and their teacher/advisor receive a one week, all-expenses paid educational internship at a NASA Research Center.
- All students who qualify receive certificates of participation.



GRADES

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# MARS SCIENTIFIC EXPERIMENT PROPOSAL

Just as Jefferson sent Lewis and Clark to open the continent, students of today can take the initiative to open the universe by space exploration. Mars is possibly the door to the future. Past exploration of the Red Planet has given answers to many questions, yet there are just as many questions to answer.

Students plan and design an expedition to Mars and propose an experiment to be done sometime during the journey.

## RULES

- The Mars project is done by one individual.
- The project should be formatted with sections subtitled exactly as follows:
  1. **Entry Form**
  2. **Title Page**
  3. **Abstract**—A concise statement, 100 words or less, describing the overall proposal.
  4. **Introduction and Logistical/Engineering**—What is your overall plan for your expedition? Will it be manned or unmanned? Explain your rationale. What social problems might arise or be solved? What is this mission's value to society? How long will the journey take? What are the design concepts of your transportation, life support system, and habitat (if needed)?
  5. **Scientific Experiment Proposal**—What major scientific question could be answered by the Mars science expedition? Propose and write an experiment that could be done en route to or on the surface of Mars. In your experiment, include and label:
    - Description of problem/hypothesis
    - List of materials essential to the experiment
    - Procedures
    - Analysis of data collected in experiment
  6. **Bibliography**—List all literature and other sources used in developing your proposal and expedition.
- Note: The Introduction and Logistical Engineering section may not exceed 1000 words total. The Scientific Experiment Proposal must be limited to 1000 words. All projects must be typed, double-spaced on white unlined 8½" x 11" paper. Each page must be numbered.
- The entry must be the student's original work. No copyrighted materials may be used, such as charac-

ters from comic books or television.

- All instructions must be followed or entry will be disqualified for judging.

## MAILING

- Attach the typed original and two (2) photocopies of the project to the entry form. The student's name should appear only on the entry form. No reference to the student or location should appear in the project.

## JUDGING CRITERIA (Total of 50 points)

### POINTS

- 15** Scientific validity and critical thinking
- 10** Creativity and originality
- 10** Organization, clarity, and appropriate references
- 10** Suitability of Mars experiment proposal
- 5** Grammar, syntax, and spelling

## AWARDS

### REGIONAL WINNERS

- Regional Winners and their teacher/advisor receive an all-expenses paid trip to a space science symposium at a NASA center where the next round of competition will be held.

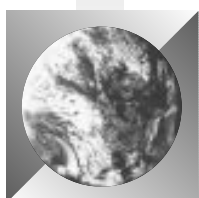
### NATIONAL SEMI-FINALIST WINNERS

- National winners and their teacher/advisor receive an all-expenses paid trip to the National Space Science Symposium in Washington, DC.

### NATIONAL WINNER

- First Place National Winner and his or her teacher/advisor receive an all-expenses paid trip to the NASA research center of their choice.

All students who qualify receive certificates of participation.



GRADES

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# Space Science Student Involvement Program (SSIP) ENTRY FORM FOR ALL CONTESTS

Please type or print clearly. All SSIP contest entries must be accompanied by this entry form. Entry form may be duplicated.

PROJECT TITLE *(your project, not contest name)* \_\_\_\_\_

BRIEF DESCRIPTION *(detailed enough to be helpful in selecting proper judges & mentors)* \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## SCHOOL INFORMATION

SCHOOL NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

SCHOOL PHONE ( ) \_\_\_\_\_ FAX ( ) \_\_\_\_\_

PRINCIPAL'S NAME & TITLE: ☐ Dr. ☐ Mr. ☐ Ms.

NAME \_\_\_\_\_

## TEACHER/ADVISOR INFORMATION

TEACHER/ADVISOR NAME \_\_\_\_\_

HOME ADDRESS \_\_\_\_\_

HOME PHONE ( ) \_\_\_\_\_

I certify that the attached entry in the NASA/NSTA Space Science Student Involvement Program is the original work of the student(s) named below. I have reviewed this proposal for compliance with contest rules.

TEACHER/ADVISOR SIGNATURE \_\_\_\_\_

## STUDENT INFORMATION

### (INDIVIDUAL OR TEAM MEMBER #1)

STUDENT NAME \_\_\_\_\_

HOME ADDRESS \_\_\_\_\_

HOME PHONE ( ) \_\_\_\_\_

Completion of this section is voluntary. Winners will be selected on the basis of merit, not race, gender, or citizenship.

RACE: ☐ Caucasian ☐ Black ☐ Hispanic ☐ Native American ☐ Asian ☐ Other  
SEX: ☐ Male ☐ Female U.S. CITIZEN: ☐ Yes ☐ No

I certify that the attached entry in the NASA/NSTA Space Science Student Involvement Program is the original work of the student named above.

STUDENT SIGNATURE \_\_\_\_\_

PARENT/GUARDIAN SIGNATURE \_\_\_\_\_

## CONTEST

- ☐ Intergalactic Art
- ☐ Future Aircraft/ Spacecraft Design
- ☐ Mission To Planet Earth
- ☐ Mars Scientific Experiment Proposal
- ☐ Aerospace Internships
  - ☐ Supercomputer
  - ☐ Microgravity
  - ☐ Wind Tunnel
  - ☐ Space Station
  - ☐ Spacelab
  - ☐ Space Astronomy
  - ☐ Launch Operations
  - ☐ Space Telerobotics

## GRADE LEVEL

☐ 3 ☐ 5 ☐ 7 ☐ 9 ☐ 11

☐ 4 ☐ 6 ☐ 8 ☐ 10 ☐ 12

### (TEAM MEMBER #2)

STUDENT NAME \_\_\_\_\_

HOME ADDRESS \_\_\_\_\_

HOME PHONE ( ) \_\_\_\_\_

Completion of this section is voluntary. Winners will be selected on the basis of merit, not race, gender, or citizenship.

RACE: ☐ Caucasian ☐ Black ☐ Hispanic ☐ Native American ☐ Asian ☐ Other  
SEX: ☐ Male ☐ Female U.S. CITIZEN: ☐ Yes ☐ No

I certify that the attached entry in the NASA/NSTA Space Science Student Involvement Program is the original work of the student named above.

STUDENT SIGNATURE \_\_\_\_\_

PARENT/GUARDIAN SIGNATURE \_\_\_\_\_

### (TEAM MEMBER #3)

STUDENT NAME \_\_\_\_\_

HOME ADDRESS \_\_\_\_\_

HOME PHONE ( ) \_\_\_\_\_

Completion of this section is voluntary. Winners will be selected on the basis of merit, not race, gender, or citizenship.

RACE: ☐ Caucasian ☐ Black ☐ Hispanic ☐ Native American ☐ Asian ☐ Other  
SEX: ☐ Male ☐ Female U.S. CITIZEN: ☐ Yes ☐ No

I certify that the attached entry in the NASA/NSTA Space Science Student Involvement Program is the original work of the student named above.

STUDENT SIGNATURE \_\_\_\_\_

PARENT/GUARDIAN SIGNATURE \_\_\_\_\_

### (TEAM MEMBER #4)

STUDENT NAME \_\_\_\_\_

HOME ADDRESS \_\_\_\_\_

HOME PHONE ( ) \_\_\_\_\_

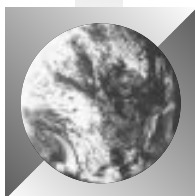
Completion of this section is voluntary. Winners will be selected on the basis of merit, not race, gender, or citizenship.

RACE: ☐ Caucasian ☐ Black ☐ Hispanic ☐ Native American ☐ Asian ☐ Other  
SEX: ☐ Male ☐ Female U.S. CITIZEN: ☐ Yes ☐ No

I certify that the attached entry in the NASA/NSTA Space Science Student Involvement Program is the original work of the student named above.

STUDENT SIGNATURE \_\_\_\_\_

PARENT/GUARDIAN SIGNATURE \_\_\_\_\_





# PROGRAM EVALUATION AND QUESTIONNAIRE

In order to receive the certificates of participation for your students, the teacher/advisor must fill out the following information. (NOTE: Certificates will be given only to students who submit entries.) Please return completed form to National Science Teachers Association, Attn: SSIP Competition, 1840 Wilson Blvd., Arlington, VA 22201-3000

**1** TEACHER/ADVISOR NAME \_\_\_\_\_

**2** SCHOOL NAME \_\_\_\_\_

**3** SCHOOL ADDRESS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**4** Your Position: ☐ Teacher ☐ Administrator ☐ Supervisor

**5** Type Of School: ☐ Public ☐ Private

**6** Location: ☐ Urban ☐ Suburban ☐ Rural

**7** State where you live \_\_\_\_\_

**8** Gender: ☐ Female ☐ Male

**9** How did you use SSIP materials?

☐ Class assignment

☐ Announced availability for interested students

☐ Extra credit

☐ Didn't use

☐ Special course

☐ Other (Please specify) \_\_\_\_\_

☐ Individual assignment to selected students

**10** How many students (Provide specific number for each):

...did you expose to SSIP? \_\_\_\_\_ ...worked on an SSIP project? \_\_\_\_\_ ...submitted SSIP entries? \_\_\_\_\_

**11** To what extent does SSIP fit into the subject matter that you are teaching?

Not at all      1      2      3      4      5      Very well

**12** Do you think the Mars Scientific Experiment Proposal should be a team competition?

☐ Yes ☐ No (Please explain) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**13** One principal goal of this program is to improve the interest of teachers and students in science by using the excitement that is generated by the space program as a motivator for learning. Please tell us to what extent do you feel this goal is being addressed.

Not at all      1      2      3      4      5      Very well

(Please explain) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

