

## **Appendix C. Instruments–Teacher Survey (Start and End of Year)**

Screenshots of programmed surveys

Word version (used for instrument development)



## National Aeronautics and Space Administration

[www.nasa.gov](http://www.nasa.gov)

Greetings,

This survey is being conducted by Abt Associates Inc. for the National Aeronautics and Space Administration (NASA) as part of its efforts to learn about the teachers who participate in the NASA Explorer Schools (NES) program. Teachers who use NES materials in their classrooms are being asked to complete this voluntary survey. We estimate that it will take approximately 10 minutes to complete the survey. Thank you very much for your cooperation!

Participation in the study is voluntary and nonparticipation will have no impact on you or your school. You may skip questions on the survey or discontinue participation at any time. Your responses to this survey will be protected under the Privacy Act. There is minimal risk of breach of confidentiality, and we have put in place procedures in place to minimize this risk. You will never be identified by name, and your responses to this survey will be combined with other teachers' responses and reported in a summary. All information that would permit identification of individual respondents will be used only by persons engaged in and for the purposes of the survey, and will not be disclosed or released to others for any purpose except as required by law. NASA will not have access to the individual survey responses; other researchers may have access to de-identified survey results (i.e., they will not know your identity).

If you have questions about the study, please contact the study director, Alina Martinez of Abt Associates Inc. at 855-646-3308 (toll-free) or email at [NASAEplorerSchoolsStudy@abtassoc.com](mailto:NASAEplorerSchoolsStudy@abtassoc.com). For more information about this data collection, including OMB clearance and burden estimates, you may contact Lori Parker, NASA PRA Clearance Officer at [lori.parker-1@nasa.gov](mailto:lori.parker-1@nasa.gov), 202-358-1351 (toll number). For questions about your rights as a participant in this study, contact Teresa Doksum at the Abt Associates Inc. Institutional Review Board at 877-520-6835 (toll-free).

### Consent

Please click the "Continue" button below if you agree to participate in this study.

Continue



1. Please rate how **comfortable** you are teaching each of the following content areas in your classroom.

Very uncomfortable    Somewhat uncomfortable    Neither comfortable nor uncomfortable    Somewhat comfortable    Very comfortable

Algebra	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Astrobiology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Climate Change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data Analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Distance Rate Problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Earth and Space Science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering or Engineering Design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forces and Motion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geometry and Vectors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Graphing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interpreting Data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Metabolism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Microgravity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Newton's Laws of Motion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Physical Science or Physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plant Biology/Botany	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Probability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pythagorean Theorem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Satellite Data or Imagery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solar Energy and Radiation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transfer of Energy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water Cycle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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2. Please rate how *familiar* you are with each of the following NES modules.

	Not familiar at all	Somewhat familiar	Familiar	Very familiar	Expert or extremely familiar
Black Hole Math	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Earth Climate Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering Design Challenge: Lunar Plant Growth Chamber	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering Design Challenge: Spacecraft Structures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering Design Challenge: Water Filtration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exploring Space Through Math: The Weightless Wonder	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exploring Space Through Math: Lunar Rover	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GENESIS: Exploring Data A First Look	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GENESIS: What Are We Made Of: The Sun, Earth, and You	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fingerprints of Life? Extremophiles: It's Just Right	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lunar Nautics: Designing a Mission to Live and Work on the Moon	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Math and Science @ Work: Lunar Surface Instrumentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MESSENGER: Cooling with Sunshades	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MESSENGER: Staying Cool	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My NASA Data: Solar Cell Energy Availability from Around the Country	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On the Moon Educator Guide: On Target	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On the Moon Educator Guide: Feel the Heat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rockets Educator Guide: High Power Paper Rockets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Satellite Meteorology: Monitoring the Global Environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Smart Skies: Line-up with Math	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Continue



3. Please rate how *familiar* you are with each of the following NASA Now events.

	Not familiar at all	Somewhat familiar	Familiar	Very familiar	Expert or extremely familiar
NASA Now: Search for Life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Earth Science Week: Exploring Energy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Flight Testing and the Global Hawk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Simulated Lunar Operations (SLOPE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A-Train: Clouds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inflatable Structures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A-Train: Monitoring the Earth System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Shuttle Engineering Challenge: Guidance, Navigation, and Flight Control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Black Holes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expedition 26	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The Mechanics of Solar Panels	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
X-48B Research Aircraft and Green Technology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EPOXI Flyby Spacecraft: Close Encounters of the Comet Kind	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Microbes @ NASA: Early Earth Ecosystems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Operation IceBridge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Path of an Astronaut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suited for Spacewalking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Robonaut 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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**Background**

4. Approximately how many hours have you spent exploring the NES Virtual campus?

5. How satisfied were you with the Virtual Campus? Please circle the number below that best represent your opinion.

- Very unsatisfied
- Somewhat unsatisfied
- Neither satisfied nor unsatisfied
- Somewhat satisfied
- Very Satisfied
- Not applicable

6. Do you have any suggestions for improving the virtual campus?

7. Please list the name(s) of the course(s) where you plan to use NES materials, and the grade level(s) of students in each course.

	Course name	Grade level
1.	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>

8. Including this year, how many years have you been a classroom teacher?

9. Including this year, how many years have you taught subjects related to science technology, engineering, OR mathematics?

10. What is the highest degree you have received? Please check only one.

- Bachelor's
- Master's
- Doctorate
- Other, please specify:

11. What is your gender? Please check only one.

- Male
- Female

12. Do you consider yourself to be Hispanic or Latino? Please check only one.

- Yes
- No

13. What is your race? Please check all that apply.

- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or Other Pacific Islander
- White



NES Teacher Pre-Survey

Thank you for taking the survey.



*Abt Associates Inc.*



## National Aeronautics and Space Administration

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### Consent

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1. Please rate how comfortable you are teaching each of the following content areas in your classroom.

Very uncomfortable    Somewhat uncomfortable    Neither comfortable nor uncomfortable    Somewhat comfortable    Very comfortable

Algebra	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Astrobiology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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Data Analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Distance Rate Problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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Forces and Motion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geometry and Vectors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Graphing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interpreting Data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Metabolism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Microgravity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Newton's Laws of Motion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Physical Science or Physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plant Biology/Botany	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Probability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pythagorean Theorem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Satellite Data or Imagery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solar Energy and Radiation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transfer of Energy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water Cycle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Continue





2. Please rate how *familiar* you are with each of the following NES modules.

	Not familiar at all	Somewhat familiar	Familiar	Very familiar	Expert or extremely familiar
Black Hole Math	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Earth Climate Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering Design Challenge: Lunar Plant Growth Chamber	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering Design Challenge: Spacecraft Structures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering Design Challenge: Water Filtration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exploring Space Through Math: The Weightless Wonder	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exploring Space Through Math: Lunar Rover	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GENESIS: Exploring Data A First Look	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GENESIS: What Are We Made Of: The Sun, Earth, and You	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fingerprints of Life? Extremophiles: It's Just Right	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lunar Nautics: Designing a Mission to Live and Work on the Moon	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Math and Science @ Work: Lunar Surface Instrumentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MESSENGER: Cooling with Sunshades	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MESSENGER: Staying Cool	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My NASA Data: Solar Cell Energy Availability from Around the Country	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On the Moon Educator Guide: On Target	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On the Moon Educator Guide: Feel the Heat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rockets Educator Guide: High Power Paper Rockets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Satellite Meteorology: Monitoring the Global Environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Smart Skies: Line-up with Math	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Continue



3. Please rate how *comfortable* you are implementing each of the following NES modules in your classroom.

	Very uncomfortable	Somewhat uncomfortable	Neither comfortable nor uncomfortable	Somewhat comfortable	Very comfortable
Black Hole Math	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Earth Climate Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering Design Challenge: Lunar Plant Growth Chamber	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering Design Challenge: Spacecraft Structures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Engineering Design Challenge: Water Filtration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exploring Space Through Math: The Weightless Wonder	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exploring Space Through Math: Lunar Rover	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GENESIS: Exploring Data A First Look	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GENESIS: What Are We Made Of: The Sun, Earth, and You	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fingerprints of Life? Extremophiles: It's Just Right	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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MESSENGER: Staying Cool	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My NASA Data: Solar Cell Energy Availability from Around the Country	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On the Moon Educator Guide: On Target	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
On the Moon Educator Guide: Feel the Heat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rockets Educator Guide: High Power Paper Rockets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Satellite Meteorology: Monitoring the Global Environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Smart Skies: Line-up with Math	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Continue





4. Please rate how *familiar* you are with each of the following NASA Now events.

	Not familiar at all	Somewhat familiar	Familiar	Very familiar	Expert or extremely familiar
NASA Now: Search for Life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Earth Science Week: Exploring Energy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Flight Testing and the Global Hawk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Simulated Lunar Operations (SLOPE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A-Train: Clouds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inflatable Structures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A-Train: Monitoring the Earth System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Shuttle Engineering Challenge: Guidance, Navigation, and Flight Control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Black Holes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expedition 26	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The Mechanics of Solar Panels	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
X-48B Research Aircraft and Green Technology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EPOXI Flyby Spacecraft: Close Encounters of the Comet Kind	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Microbes @ NASA: Early Earth Ecosystems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Operation IceBridge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Path of an Astronaut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suited for Spacewalking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Robonaut 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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5. Please rate how *comfortable* you are in implementing each of the following NASA Now events in your classroom.

	Very uncomfortable	Somewhat uncomfortable	Neither comfortable nor uncomfortable	Somewhat comfortable	Very comfortable
NASA Now: Search for Life	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Earth Science Week: Exploring Energy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Flight Testing and the Global Hawk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Simulated Lunar Operations (SLOPE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A-Train: Clouds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inflatable Structures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A-Train: Monitoring the Earth System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Shuttle Engineering Challenge: Guidance, Navigation, and Flight Control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Black Holes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expedition 26	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The Mechanics of Solar Panels	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
X-48B Research Aircraft and Green Technology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EPOXI Flyby Spacecraft: Close Encounters of the Comet Kind	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Microbes @ NASA: Early Earth Ecosystems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Operation IceBridge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Path of an Astronaut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suited for Spacewalking	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Robonaut 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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6. Which NES module(s) did you use in your classroom this year? Please check all that apply:

- Black Hole Math
- Earth Climate Course
- Engineering Design Challenge: Lunar Plant Growth Chamber
- Engineering Design Challenge: Spacecraft Structures
- Engineering Design Challenge: Water Filtration
- Exploring Space Through Math: The Weightless Wonder
- Exploring Space Through Math: Lunar Rover
- GENESIS: Exploring Data A First Look
- GENESIS: What Are We Made Of: The Sun, Earth, and You
- Fingerprints of Life? Extremophiles: It's Just Right
- Lunar Nautics: Designing a Mission to Live and Work on the Moon
- Math and Science @ Work: Lunar Surface Instrumentation
- MESSENGER: Cooling with Sunshades
- MESSENGER: Staying Cool
- My NASA Data: Solar Cell Energy Availability from Around the Country
- On the Moon Educator Guide: On Target
- On the Moon Educator Guide: Feel the Heat
- Rockets Educator Guide: High Power Paper Rockets
- Satellite Meteorology: Monitoring the Global Environment
- Smart Skies: Line-up with Math

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7. What is the primary subject matter of the course where you used NES materials? Please check only one for each course.

- General Science
- General Math
- Engineering
- Technology
- Earth Science
- Biology
- Chemistry
- Physics
- Algebra
- Geometry
- Calculus
- Other:

8. What are the grade levels of the students in the course(s) where you used NES materials? Please check all that apply.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

9. Approximately how many hours have you spent exploring the NES Virtual campus? Please check only one.

- 0-1
- 1-3
- 3-5
- 5-8
- 8-10
- 10-15
- More than 15

10. How satisfied were you with the Virtual Campus?

- Very unsatisfied  Somewhat unsatisfied  Neither satisfied nor unsatisfied  Somewhat satisfied  Very satisfied  Not applicable

11. Do you have any suggestions for improving the virtual campus?



## NES Teacher Post-Survey

Thank you for taking the survey.





**NES START of YEAR TEACHER SURVEY**  
**National Aeronautics and Space Administration**

[www.nasa.gov](http://www.nasa.gov)



Welcome! This survey is being conducted by Abt Associates Inc. for the National Aeronautics and Space Administration (NASA) as part of its efforts to learn about the teachers who participate in the NASA Explorer Schools (NES) program. Teachers who use NES materials in their classrooms are being asked to complete this voluntary survey. The information we receive from you will help NASA improve the NES project and understand the relationship between NES and students' interest in and understanding of science, technology, engineering, and mathematics (STEM). We estimate that it will take approximately 10 minutes to complete the survey. Thank you very much for your cooperation!

Participation in the study is voluntary and nonparticipation will have no impact on you or your school. You may skip questions on the survey or discontinue participation at any time. There is minimal risk of breach of confidentiality, and we have put in place procedures in place to minimize this risk. You will never be identified by name, and your responses to this survey will be combined with other teachers' responses and reported in a summary. All information that would permit identification of individual respondents will be used only by persons engaged in and for the purposes of the survey, and will not be disclosed or released to others for any purpose except as required by law. NASA will not have access to the individual survey responses; other researchers may have access to de-identified survey results (i.e., they will not know your identity).

If you have questions about the study, please contact the study director, Alina Martinez of Abt Associates Inc. at 855-646-3308 (toll-free) or email at [NASAEplorerSchoolsStudy@abtassoc.com](mailto:NASAEplorerSchoolsStudy@abtassoc.com). For more information about this data collection, including OMB clearance and burden estimates, you may contact Lori Parker, NASA PRA Clearance Officer at [lori.parker-1@nasa.gov](mailto:lori.parker-1@nasa.gov), 202-358-1351 (toll number). For questions about your rights as a participant in this study, contact Teresa Doksum at the Abt Associates Inc. Institutional Review Board at 877-520-6835 (toll-free).

**Consent**

Please continue with the survey if you agree to participate in this study.

**Paperwork Reduction Act Statement** - This information collection meets the requirements of 44 U.S.C. § 3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget control number. We estimate that it will take about 10 minutes to read the instructions, gather the facts, and answer the questions. **You can find additional information on this program at <http://www.nasa.gov/offices/education/programs/national/nes2/home/index.html>** You may send comments on our time estimate above to: [NASAEplorerSchoolsStudy@abtassoc.com](mailto:NASAEplorerSchoolsStudy@abtassoc.com). **Please send only comments relating to our time estimate to this address, not the completed form.**

**1. Please rate how comfortable you are teaching each of the following content areas in your classroom.**

	Very uncomfo rtable	Somewh at uncomfo rtable	Neither comf ortable nor uncomf ortable	Somewh at comf ortable	Very comf ortable
	1	2	3	4	5
Algebra					
Astrobiology					
Biology					
Climate Change					
Data Analysis					
Distance Rate Problems					
Earth and Space Science					
Engineering or Engineering Design					
Forces and Motion					
Geometry and Vectors					
Graphing					
Interpreting Data					
Metabolism					
Microgravity					
Newton's Laws of Motion					
Physical Science or Physics					
Plant Biology/Botany					
Probability					
Pythagorean Theorem					
Satellite Data or Imagery					
Solar Energy and Radiation					
Transfer of Energy					
Water Cycle					
Weather					

**2. Please rate how familiar you are with each of the following NES modules.**

	Not at all familiar	Somewhat familiar	Familiar	Very familiar	Expert or extremely familiar
	1	2	3	4	5
Black Hole Math					
Earth Climate Course					
Engineering Design Challenge: Lunar Plant Growth Chamber					
Engineering Design Challenge: Spacecraft Structures					
Engineering Design Challenge: Water Filtration					
Exploring Space Through Math: The Weightless Wonder					
Exploring Space Through Math: Lunar Rover					
GENESIS: Exploring Data A First Look					
GENESIS: What Are We Made Of: The Sun, Earth, and You					
Fingerprints of Life? Extremophiles: It's Just Right					
Lunar Nautics: Designing a Mission to Live and Work on the Moon					
Math and Science @ Work: Lunar Surface Instrumentation					
MESSENGER: Cooling with Sunshades					
MESSENGER: Staying Cool					
My NASA Data: Solar Cell Energy Availability from Around the Country					
On the Moon Educator Guide: On Target					
On the Moon Educator Guide: Feel the Heat					
Rockets Educator Guide: High Power Paper Rockets					
Satellite Meteorology: Monitoring the Global Environment					
Smart Skies: Line-up with Math					

**3. Please rate how familiar you are with each of the following NASA Now events.**

	Not at all familiar	Somewh at familiar	Familiar	Very familiar	Expert or extremely familiar
	1	2	3	4	5
NASA Now: Search for Life					
Earth Science Week: Exploring Energy					
Flight Testing and the Global Hawk					
Simulated Lunar Operations (SLOPE)					
A-Train: Clouds					
Inflatable Structures					
A-Train: Monitoring the Earth System					

**Background**

- Approximately how many hours have you spent exploring the NES Virtual campus?
- How satisfied were you with the Virtual Campus? Please circle the number below that best represents your opinion.

Very unsatisfied	Somewh at unsatisfi ed	Neither satisfied nor unsatisfied	Somewhat satisfied	Very satisfied	Not applicable
1	2	3	4	5	X

- Do you have any suggestions for improving the virtual campus?

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- Please list the name(s) of the course(s) where you plan to use NES materials, and the grade level(s) of students in each course.

Course Name	Grade level

- Including this year, how many years have you been a classroom teacher?

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- Including this year, how many years have you taught subjects related to science technology, engineering, or mathematics?\_\_\_\_\_

10. What is the highest degree you have received?

- Bachelor's
- Master's
- Doctorate
- Other, Please specify: \_\_\_\_\_

11. What is your gender? Please check one only.

- Male
- Female

12. Do you consider yourself to be Hispanic or Latino? Please check one only.

- Yes
- No

13. What is your race? Please check one or more.

- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or Other Pacific Islander
- White

**NES END of YEAR TEACHER SURVEY**  
**National Aeronautics and Space Administration**

[www.nasa.gov](http://www.nasa.gov)



Welcome! This survey is being conducted by Abt Associates Inc. for the National Aeronautics and Space Administration (NASA) as part of its efforts to learn about the teachers who participate in the NASA Explorer Schools (NES) program. Teachers who use NES materials in their classrooms are being asked to complete this voluntary survey. The information we receive from you will help NASA improve the NES project and understand the relationship between NES and students' interest in and understanding of science, technology, engineering, and mathematics (STEM). We estimate that it will take approximately 10 minutes to complete the survey. Thank you very much for your cooperation!

Participation in the study is voluntary and nonparticipation will have no impact on you or your school. You may skip questions on the survey or discontinue participation at any time. There is minimal risk of breach of confidentiality, and we have put in place procedures in place to minimize this risk. You will never be identified by name, and your responses to this survey will be combined with other teachers' responses and reported in a summary. All information that would permit identification of individual respondents will be used only by persons engaged in and for the purposes of the survey, and will not be disclosed or released to others for any purpose except as required by law. NASA will not have access to the individual survey responses; other researchers may have access to de-identified survey results (i.e., they will not know your identity).

If you have questions about the study, please contact the study director, Alina Martinez of Abt Associates Inc. at 855-646-3308 (toll-free) or email at [NASAExplorerSchoolsStudy@abtassoc.com](mailto:NASAExplorerSchoolsStudy@abtassoc.com). For more information about this data collection, including OMB clearance and burden estimates, you may contact Lori Parker, NASA PRA Clearance Officer at [lori.parker-1@nasa.gov](mailto:lori.parker-1@nasa.gov), 202-358-1351 (toll number). For questions about your rights as a participant in this study, contact Teresa Doksum at the Abt Associates Inc. Institutional Review Board at 877-520-6835 (toll-free).

### **Consent**

Please continue with the survey if you agree to participate in this study.

**Paperwork Reduction Act Statement** - This information collection meets the requirements of 44 U.S.C. § 3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget control number. We estimate that it will take about 10 minutes to read the instructions, gather the facts, and answer the questions. **You can find additional information on this program at <http://www.nasa.gov/offices/education/programs/national/nes2/home/index.html>** You may send comments on our time estimate above to: [NASAExplorerSchoolsStudy@abtassoc.com](mailto:NASAExplorerSchoolsStudy@abtassoc.com). **Please send only comments relating to our time estimate to this address, not the completed form.**

**1. Please rate how comfortable you are teaching each of the following content areas in your classroom.**

	Very uncomfo rtable	Somewh at uncomfo rtable	Neither comf ortable nor uncomf ortable	Somewh at Comf ortable	Very Comforta ble
<b>Area</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Algebra					
Astrobiology					
Biology					
Climate Change					
Data Analysis					
Distance Rate Problems					
Earth and Space Science					
Engineering or Engineering Design					
Forces and Motion					
Geometry and Vectors					
Graphing					
Interpreting Data					
Metabolism					
Microgravity					
Newton's Laws of Motion					
Physical Science or Physics					
Plant Biology/Botany					
Probability					
Pythagorean Theorem					
Satellite Data or Imagery					
Solar Energy and Radiation					
Transfer of Energy					
Water Cycle					
Weather					

**2. Please rate how *familiar* you are with each of the following NES modules.**

	Not at all familiar	Somewhat familiar	Familiar	Very familiar	Expert or extremely familiar
	1	2	3	4	5
Black Hole Math					
Earth Climate Course					
Engineering Design Challenge: Lunar Plant Growth Chamber					
Engineering Design Challenge: Spacecraft Structures					
Engineering Design Challenge: Water Filtration					
Exploring Space Through Math: The Weightless Wonder					
Exploring Space Through Math: Lunar Rover					
GENESIS: Exploring Data A First Look					
GENESIS: What Are We Made Of: The Sun, Earth, and You					
Fingerprints of Life? Extremophiles: It's Just Right					
Lunar Nautics: Designing a Mission to Live and Work on the Moon					
Math and Science @ Work: Lunar Surface Instrumentation					
MESSENGER: Cooling with Sunshades					
MESSENGER: Staying Cool					
My NASA Data: Solar Cell Energy Availability from Around the Country					
On the Moon Educator Guide: On Target					
On the Moon Educator Guide: Feel the Heat					
Rockets Educator Guide: High Power Paper Rockets					
Satellite Meteorology: Monitoring the Global Environment					
Smart Skies: Line-up with Math					



**3. Please rate how comfortable you are implementing each of the following NES modules in your classroom.**

	Very uncomf ortable	Somewh at uncomfor table	Neither comfort able nor uncomf ortable	Somewh at comfort able	Very comfort able
	1	2	3	4	5
Black Hole Math					
Earth Climate Course					
Engineering Design Challenge: Lunar Plant Growth Chamber					
Engineering Design Challenge: Spacecraft Structures					
Engineering Design Challenge: Water Filtration					
Exploring Space Through Math: The Weightless Wonder					
Exploring Space Through Math: Lunar Rover					
GENESIS: Exploring Data A First Look					
GENESIS: What Are We Made Of: The Sun, Earth, and You					
Fingerprints of Life? Extremophiles: It's Just Right					
Lunar Nautics: Designing a Mission to Live and Work on the Moon					
Math and Science @ Work: Lunar Surface Instrumentation					
MESSENGER: Cooling with Sunshades					
MESSENGER: Staying Cool					
My NASA Data: Solar Cell Energy Availability from Around the Country					
On the Moon Educator Guide: On Target					
On the Moon Educator Guide: Feel the Heat					
Rockets Educator Guide: High Power Paper Rockets					
Satellite Meteorology: Monitoring the Global Environment					
Smart Skies: Line-up with Math					

**4. Please rate how *familiar* you are with each of the following NASA Now events.**

	Not at all familiar	Somewhat familiar	Familiar	Very familiar	Expert or extremely familiar
	1	2	3	4	5
NASA Now: Search for Life					
Earth Science Week: Exploring Energy					
Flight Testing and the Global Hawk					
Simulated Lunar Operations (SLOPE)					
A-Train: Clouds					
Inflatable Structures					
A-Train: Monitoring the Earth System					
Shuttle Engineering Challenge: Guidance, Navigation, and Flight Control					
Black Holes					
Expedition 26					
The Mechanics of Solar Panels					
X-48B Research Aircraft and Green Technology					
EPOXI Flyby Spacecraft: Close Encounters of the Comet Kind					
Microbes @ NASA: Early Earth Ecosystems					
Operation IceBridge					
Path of an Astronaut					
Suited for Spacewalking					
Robonaut 2					

**5. Please rate how comfortable you are in implementing each of the following NASA Now events in your classroom.**

	Very uncomf ortable	Somewh at uncomfor table	Neither comf ortable nor uncomf ortable	Somewh at comf ortable	Very comf ortable
	1	2	3	4	5
NASA Now: Search for Life					
Earth Science Week: Exploring Energy					
Flight Testing and the Global Hawk					
Simulated Lunar Operations (SLOPE)					
A-Train: Clouds					
Inflatable Structures					
A-Train: Monitoring the Earth System					
Shuttle Engineering Challenge: Guidance, Navigation, and Flight Control					
Black Holes					
Expedition 26					
The Mechanics of Solar Panels					
X-48B Research Aircraft and Green Technology					
EPOXI Flyby Spacecraft: Close Encounters of the Comet Kind					
Microbes @ NASA: Early Earth Ecosystems					
Operation IceBridge					
Path of an Astronaut					
Suited for Spacewalking					
Robonaut 2					

**6. Which NES module(s) did you use in your classroom this year? Please check all that apply:**

<input type="checkbox"/>	Black Hole Math
<input type="checkbox"/>	Earth Climate Course
<input type="checkbox"/>	Engineering Design Challenge: Lunar Plant Growth Chamber
<input type="checkbox"/>	Engineering Design Challenge: Spacecraft Structures
<input type="checkbox"/>	Engineering Design Challenge: Water Filtration
<input type="checkbox"/>	Exploring Space Through Math: The Weightless Wonder
<input type="checkbox"/>	Exploring Space Through Math: Lunar Rover

<input type="checkbox"/>	GENESIS: Exploring Data
<input type="checkbox"/>	A First Look
<input type="checkbox"/>	GENESIS: What Are We Made Of: The Sun, Earth, and You
<input type="checkbox"/>	Fingerprints of Life? Extremophiles: It's Just Right
<input type="checkbox"/>	Lunar Nautics: Designing a Mission to Live and Work on the Moon
<input type="checkbox"/>	Math and Science @ Work: Lunar Surface Instrumentation
<input type="checkbox"/>	MESSENGER: Cooling with Sunshades

<input type="checkbox"/>	MESSENGER: Staying Cool
<input type="checkbox"/>	My NASA Data: Solar Cell Energy Availability from Around the Country
<input type="checkbox"/>	On the Moon Educator Guide: On Target
<input type="checkbox"/>	On the Moon Educator Guide: Feel the Heat
<input type="checkbox"/>	Rockets Educator Guide: High Power Paper Rockets
<input type="checkbox"/>	Satellite Meteorology: Monitoring the Global Environment
<input type="checkbox"/>	Smart Skies: Line-up with Math

**7. What is the primary subject matter of the course where you used NES materials?**

**Please check only one for each course.**

- General Science
- General Math
- Engineering
- Technology
- Earth Science
- Biology
- Chemistry
- Physics
- Algebra
- Geometry
- Calculus
- Other: \_\_\_\_\_

**8. What are the grade levels of the students in the course(s) where you used NES materials? Please check all that apply.**

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

**9. Approximately how many hours have you spent exploring the NES Virtual campus?**

- 0-1
- 1-3
- 3-5
- 5-8
- 8-10
- More than 15

**10. How satisfied were you with the Virtual Campus? Please circle the number below that best represents your opinion.**

Very unsatisfied	Somewh at unsatisfi ed	Neither satisfied nor unsatisfied	Somewhat satisfied	Very satisfied	Not Applicable
1	2	3	4	5	X

**11. Do you have any suggestions for improving the virtual campus?**

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