Appendix 14: Teacher School-Year Quarterly Implementation Log Form



National Aeronautics and Space Administration

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Summer of Innovation School-Year Teacher Quarterly Implementation Form

Greetings!

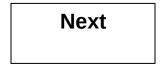
The National Aeronautics and Space Administration (NASA) is conducting a national evaluation of its Summer of Innovation (SoI) Program. Abt Associates Inc. and its partner the Education Development Center have been hired to conduct this study. The goal of the study is to explore how SoI is being implemented and assess the outcomes related to the implementation of SoI across the country.

This form is intended to document the implementation of the SoI student school-year activities across the awardee sites each month. You have been asked to complete this quarterly form based on your role in the SoI student school year activities. Completing this form will help NASA understand awardees' efforts with students during the school year. We will be sending you this form quarterly between September and June. We estimate that it will take approximately 10 minutes on average to complete.

Privacy and Participation

Your participation in the study is voluntary and nonparticipation will have no impact on you or your Sol awardee organization. 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 to minimize this risk. You will never be identified by name, and information from the evaluation will only be reported in the aggregate.

If you wish to participate in this study please click Next.



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. Return this form by entering the submit button when you are finished. You can find additional information on this program at http://www.nasa.gov/offices/education/programs/national/summer/home/index.html. You may send comments on our time estimate above to: NASASummerofinnovation@abtassoc.com. Please send only comments relating to our time estimate or comments to this address, not the completed form. If you have questions about this evaluation, please contact the evaluation director, Hilary Rhodes of Abt Associates Inc. at (877) 520-6840 (toll-free) or send an email to NASASummerofinnovation@abtassoc.com. If you have questions about your rights as a research participant, you contact Teresa Doksum, the Abt Institutional Review Board Administrator at (877) 520-6835.

A. Activity Information

Site Name (e.g., name of school)	
Teacher/Instructor Name	
Did you work with any students using NASA Summer of Innovation (SoI) content and/or
activities in the last 3 months [enter which 3 months]?	,
Yes	ITTON TO APPEAD
□ No [EXIT FROM SURVEY - THANK YOU & SUBMIT BU	JITON TO APPEAR]
Total number of days NASA Sol content and/or activities were used in the last	Limit to numeric characters (max 3 values)
3 months [enter which 3 months] Total number of contact hours NASA Sol content and/or activities were used	Limit to numeric characters
in the last 3 months [enter which 3 months]	(max 3 values)
How did students experience the NASA Sol content and/or activities	in this time period [enter
which 3 months]? Check all that apply.	in this time period [enter
Students at this site experienced SoI through	
The formal school-day as part of their regular class ac	
During out-of-school-time hours (e.g., before or afterOther, please specify:	school / Saturday sessions)
Other, please specify:	
B. Content Information	

Below is a list of the NASA units that were identified for SoI. Please indicate which ones you used in the last 3 months [enter which 3 months]. Check all that apply.

Earth & Space Science

ш	Climate	and	Seasons	IF SE	LECT	ED,	ASK	(
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Which Climate and Seasons lessons were presented? Specific activities associated with each lesson are italicized. Select one or more.

☐ Climate (Globe Soil Learning Activities: Soil Temperature; How Does Earth's Energy Budget Relate to Polar Ice?; Surface Color and Effect on Temperature Change; What is the Right Answer?)

 Seasons (Habits of the Mind; Is Grandpa Right, Were Winters Colder When He was a Boy?; Kinesthetic Astronomy; Seasonal Change on Land and Water) Other, please specify
Destination Mars (Can We Take it with Us?; Mars Bound)
Earth Moon System IF SELECTED, ASK: Which Earth Moon System lessons were presented? Specific activities associated with each lesson are italicized. Select one or more. Earth's Attic: The Moon (Lava Layering; Moon Math: Craters!; Reaping Rocks; Regolith Formation) The Sky is Falling (Finding Impact Craters; Falling the Falling Meteorite; Lava Layering; Searching for Meteorites; Space Rocks! A Meteorite Game) Other, please specify
Planetology IF SELECTED, ASK: Which Planetology lessons were presented? Specific activities associated with each lesson are italicized. Select one or more. □ Earth: A One of a Kind Planet? (Assessing Planets as Candidates for Life; Astro-Venture: Search for and Design a Habitable Planet!); Mars and Earth Physical Comparison) □ Finding Earth-like Planets (Count Your Lucky Stars, Detecting Planet Transits; Paint by Numbers) □ How Does Earth Compare? (Earth, Moon, Mars Balloons Activity; Exploring Planet Sizes; Solar System Missions; Walking the Planet Distances) □ Other, please specify
Remote Sensing IF SELECTED, ASK: Which Remote Sensing lessons were presented? Select one or more. A World of Change (Paint by Numbers; Quantifying Changes in the Land Over Time) Earth Versus Mars (What Similar Physical Processes Occur on Both Earth and Mars; Charting the Physical Characteristics of Both Earth and Mars) Finding Impact Craters Finding Water Systems (Hydrology Investigation: Model a Catchment Basin) Other, please specify
Universe IE SELECTED, ASK:

Which Un	niverse lessons were presented? Select one or more.
	Is It Safe? (Astroventure Geology Mission; Space Weather
	Action Centers)
	Points of Light (Counting Your Lucky Stars; Hubble Deep Field
	Academy; Light Pollution Star Count; Stories in the Sky)
	What's in the Stars? (Cycles in the Cards; Elements and You;
	What's Out There)
	Other, please specify
☐ Weather IF SELECT	TED, ASK:
Which W	eather lessons were presented? Select one or more.
	Air has Weight and Temperature Affects it? (Does Air Have
	Weight? How Do You Know?; Can You Show That Temperature
	of Air Has an Effect on Its Weight and Its Weight and Direction
	of Vertical Movement?)
	Much Water is Available in the Atmosphere for Precipitation?)
	What Influences Planetary Weather (Coriolis Effect;
	Atmospheric Science, Geology, and Design a Planet)
	Other, please specify
	, ,
-	
	System IF SELECTED, ASK:
	ar of the Solar System lessons were presented? Select one or
more.	
	Scale Models of the Solar System (Exploring Planet Sizes;
	Walking Planet Distances; Solar Pizza)
	Solar System Missions
	Solar System Simulator (Solar Pizza; The Schoolyard Solar
	System)
	Space Rocks! A Giant Meteorite Board Game (Space Rocks! A
	Meteorite Game)
	Vegetable Light Curves
	Where Do We Choose to Live and Why? (United States at
	Night)
	Other, please specify
Life Science units	
☐ Body IF SELECTED,	
Which Bo	dy lessons were presented? Select one or more.

	Brain in Space (Find Your Way Around Without Visual or Sound Cues; How Quick are Your Reflexes?; Vestibular-Ocular Reflex; Visualizing How the Vestibular System Works)
	Visualizing How the Vestibular System Works) Space Adaptations (Bag of Bones; Get a Leg Up; Hole-y-Bones; O2-How Much?; Vomit Comet)
	Train Like an Astronaut (Base Station Walk-Back; Crew Strength Training; Do a Spacewalk!; Jump for the Moon; Mission: Control!)
	Other, please specify
· · · · · · · · · · · · · · · · · · ·	ration for Space; Food Selection; How Much is Waste?; Mold and Serving Food; Ripening Fruits and Vegetables)
Life Out There? IF	SELECTED, ASK:
	Out There lessons were presented? Select one or more.
	Astrobiology: Life Here and Out There (Are Microbes Alive?
	Could Life Exist in Other Places in the Solar System; Do You
	Think Aliens Exist?; Do the Mystery Samples Contain Life?; Is it Living; Now What Do You Think About the Possibility of the Life
	in the Universe; What Does Life Need?; Where Does Life Live?)
	Habitable Zones (Astrobiology in Your Classroom: Life on
_	Earth and Elsewhere?; Fingerprints of Life; Sun's Habitable Zone)
	Search for Life On Other Worlds: Observing and Classifying Life (Animal Antics; Are Two Eyes Better Than One?; Creature Feature)
	Search for Life on Other Worlds: What is Life and What Does it Need to Live?
	Shapes and Food Chains (Chain Games; Supporting Structures;
	Weighty Questions)
	Other, please specify
Plants IF SELECTED,	ASK:
	nts lessons were presented? Select one or more.
	Have Seed Will Travel
	How do Plants Know Which Way to Grow? Tropisms (Space Garden)
	Light Effects On Plant Behavior (Can Photosynthesis Occur on
	Saturn?; Phototropism: Do Plants Prefer the Blues?;
	Phototropism: How Little Light Will Bend a Seedling?)
	Living Clocks (Plant Leaf Movement)
	Other, please specify

☐ Survival IF SELECTED	D, ASK:
	vival lessons were presented? Select one or more. Cool Spacesuits (Cool Suits; Keeping Your Cool) Field Trip to the Moon (Ecosystem Investigation; Engineering Investigation; Geology Investigation; Habitation Investigation; Medical Investigation; Navigation Investigation) Survivor: The Space Environment (Chain Reaction; Exploration Then and Now – Human Needs; Modeling Radiation-Damaged DNA; Solar Radiation and SPF Levels) Other, please specify
Physical Science and/or Engineer	ing units
Aeronautics IF SELE	ECTED, ASK:
	onautics lessons were presented? Specific activities associated
	lesson are italicized. Select one or more.
	Air Foils (The NASA Why Files: The Case of the Challenging Flight)
	Bag Balloons
	Beginners Guide to Aeronautics (Aerodynamics of Baseball / Soccer)
	Bernoulli and More Bernoulli (<i>The NASA Why Files: The Case of the Challenging Flight</i>)
	Controlling the Plane (The Straw Plane Experiment 1-4)
	Designing Aircraft in 5 Easy Steps: It's a Challenge! (<i>The Design Center, The Design Laboratory, The Poster Activity</i>)
	Fluttering Fun, Point of Balance (The NASA Why Files: The Case of the Challenging Flight)
	Four Forces of Flight (The NASA Why Files: The Case of the Challenging Flight)
	Getting off the Ground into the Smart Skies (<i>LineUp with Math Educator Guide</i>)
	Getting the Drop on Flight with the "X" Planes (Constructing and Testing the Ring Wing Glider, Constructing the X-33)
	Jet Propulsion
	Learning the "Wright" Way to Fly! (Engineering the Sled Kite,
	NASA Connect: the "Wright" Math)
	Other, please specify
☐ Challenges IF SELEC	TED, ASK:
_	Illenges lessons were presented? Select one or more.
	Electrodynamic Propulsion
	On Target Challenge

		Spacecraft Structures
		Thermal Protection Systems Challenge
		Touchdown Challenge
		Other, please specify
	Design Process IF	SELECTED, ASK:
	Which Des	sign Process lessons were presented? Specific activities
	associated	with each lesson are italicized. Select one or more.
		Build a Solar Oven
		Lunar Plant Growth Chamber
		Mars Pathfinder Egg Drop Challenge
		Project X51 Water Rocket Construction (Rocket Activity
	П	Project X-51) Specification of the Project (NASA "Why?" Files
	_ u	Spaghetti Anyone? Building with Pasta (NASA "Why?" Files: The Case of the "Wright Invention")
		Space Place: Make a Balloon Powered Nanorover (Build a
	_	Nanorover; Be Glad You're Not a Cyclops1; Marsdial: Show Me
		the Way to Go Home)
		Student Glovebox: Droplet Investigation of Liquids
		Water Filtration System
		Other, please specify
	.	
–	Exploration IF SELE	
	· ·	Ploration lessons were presented? Select one or more.
		Crew Exploration Unit
		Landing a Rover Moon Rovers
		NASA Simulations
	-	
		Other, please specify
	Forces and Motio	n if selected, ask:
	Which For	ce and Motion lessons were presented? Specific activities
	associated	with each lesson are italicized. Select one or more.
		Danger: Space Debris (Aerogel-lo: Technology for Studying
		Comets, Collision; Potato Astronaut – Exploration Brief:
		Micrometeoroids and Space Debris)
		Inertia and Friction (Newton Car; Racing Against Friction)
		Thrust, Air Pressure, Rockets and Newton's Third Law (Balloon Staging; Pop Can Hero Engine; Rocket Pinwheel; Rocket Races)
		What Goes Up Must Come Down: Projectile Flight (321
	_	Puff!; Accelerometers; Foam Rocket; Pop! Rockets)
	П	Other, please specify
	_	, piosoo opooni,

	Gravity IF SELECTED), ASK:
	Which Gra	avity lessons were presented? Specific activities associated with
	each lesso	n are italicized. Select one or more.
		Fighting Gravity - A Matter of Balance (Fluttering Fun; Point of
		Balance; Heavy Lifting)
		Gravity Games
		Heavy Duty Topics (Falling Weight Apparatus; Inertial Balance;
		Mass vs Weight; Pendulums)
		Other, please specify
	Duamantias of Mat	tow IS OF FOTED. ACIV
_		ter IF SELECTED, ASK:
		perties of Matter lessons were presented? Specific activities with each lesson are italicized. Select one or more.
		Composite Materials (<i>Museum in a Box</i>) Nature of Salt
		Reaction Rates (Antacid Tablet Race)
		Space Weather (Build a Magentometer; Radiation Exposure on
	_	Earth; Space Weather Action Center; What's Hidden Inside?)
	П	States of Matter (3-2-1 Pop!, Heat as the Agent of Change:
	_	Atoms and Molecules in Motion; Liquid Rainbow; Potato Float)
	П	Student Glovebox
		Other, please specify
	_	other, please specify
	Robotics IF SELECTE	ED, ASK:
	Which Rol	potics lessons were presented? Select one or more.
		Heavy Lifter
		Robotics: Hands Down!
		Using Robotics
		Other, please specify
П	Rocketry IF SELECTI	ED ASV.
_	=	cketry lessons were presented? Specific activities associated
		lesson are italicized. Select one or more.
		Heavy Lifting Air Engines (Air Engines; Heavy Lifting; Vectoring)
		Nose Cone Aerodynamics (Adventures in Rocket Science)
		Ride the Wind: Compressed Air Rocketry (High-Powered Paper
	_	Rockets; Pop! Rockets)
		Other, please specify
	_	,,
	Waves and Optics	F SELECTED, ASK:
	Which Wa	ives and Ontics lessons were presented? Select one or more

	Making Use of the Electromagnetic Spectrum (Amazing Rays, Investigating Ice Worlds)
	Manipulating Waves (Exploring Diffraction with a
	Spectroscope/Constructing a Spectroscope; Simple Magnifiers;
_	Space Operations Learning Center)
	Wave Measurements (Intro to the Electromagnetic Spectrum;
	Red Shift, Blue Shift; Simple Spectroscope; Wavelength and Energy; What's the Frequency, Roy G Biv?)
	Other, please specify
Please provide any additional NASA comonths].	ontent and/or activities that were used in the past 3 months [enter which 3
C. Additional Activities	
	e in any NASA SoI field trips or special activities/events in the ich 3 months]? Check all that apply.
☐ Attended a rocke	t or space shuttle launch event
	ive video downlink event from the International Space Station
☐ Toured a NASA Co	enter or facility
Visited a science	museum, science center, or planetarium
	a astronaut or other NASA subject matter expert
Other, please spe	participate in any field trips or special events this month
Students did not	participate in any neid trips of special events triis month
D. Professional Development Tra	aining
	ol professional development training before you started working ontent and/or activities during the school-year?
☐ Yes ☐ No	

Please provide any additional information	tion you would like to shar	e with us about the NASA SoI activities at your
site.		
Thank you for completing this su	rvey.	
	SUBMIT	

If any questions left unanswered prompt with: WARNING: One or more questions remain unanswered. Complete questions as desired and click "SUBMIT" to finish.