Appendix 11: Implementation Form for Professional Development Activities (Summer and School Year)

Summer of Innovation Teacher PD Summer and School-Year Level Implementation Form

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.

This form is intended to document the implementation of the SoI teacher professional development offerings across the awardee sites. All SoI awarded PIs are required to designate an individual(s) to complete this form at the end of any teacher professional development activities/sessions that occur between the months of June and March. This form is to be submitted to the national evaluation team within two weeks of the last day of EACH professional development activity/session.

You have been asked to complete this form based on your role in the SoI professional development activities. Completing this form will help NASA understand awardees' efforts with classroom teachers this summer and during the school year. We estimate that it will take approximately 10 minutes to complete this 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 MASASummerofInnovation@abtassoc.com. You may also contact the evaluation's program officer at NASA Brian Yoder (Brian. Yoder@nasa.gov).

A. Professional Development (PD) Information

Date(s) of this PD session	
Number of PD days for this session	
Hours per day	
Total number of PD hours focused on NASA content	

B. Content

1.	Which of t	he following SoI content them:	nes was addressed during this PD session?
		Earth & Space Science IF SELE	CTED, ASK QUESTION 2.
		Engineering IF SELECTED, ASK QU	JESTION 3.
		Life Science IF SELECTED, ASK QU	JESTIONS 4.
		Physical Science IF SELECTED, A	SK QUESTIONS 5.
2.	Which Ear	th & Space Science units were	addressed? Select one or more.
		Climate and Seasons IF SELECT	ED, ASK:
		Which Climate	and Seasons lessons were presented? Select one
		or more.	
			Climate
	_		Seasons
		Destination Mars	
	Ц	Earth Moon System IF SELECTE	
			100n System lessons were presented? Select one or
		more.	Foully). All
			Earth's Attic
			The Sky is Falling
		Planetology IF SELECTED, ASK:	Jagu Jassans ware presented? Calast one or more
			plogy lessons were presented? Select one or more. How Does Earth Compare?
			Earth-like Planets
			Earth – One of a Kind Planet
		_	
	_		son. Sensing lessons were presented? Select one or
		more.	s consing ressents were presented. Sciect one of
			Impact Cratering
			A World of Change
			Earth vs. Mars
		Universe IF SELECTED, ASK:	
		Which Univers	e lessons were presented? Select one or more.
			Is It Safe?
			What's in the Stars?
			Points of Light
		Weather IF SELECTED, ASK:	
		Which Weathe	er lessons were presented? Select one or more.
			Air has Weight
			Moisture and Clouds
			Nice Atmosphere

Year of the Solar System IF SI	ELECTED, ASK:
Which <i>Year o</i>	f the Solar System lessons were presented? Select
one or more.	
	Comet on a Stick/Cooking up a Comet
	Make a Comet and Eat it
	Scale Models of the Solar System
	Solar System Simulator
	Solar System Missions
	Vegetable Light Curves
	The United States at Night
	Space Rocks! Meteorite Game
3. Which Engineering units were addresse	d2 Salast and ar mara
 Aeronautics IF SELECTED, ASK: 	a: Select one of more.
	autics lessons were presented? Select one or more.
	Beginners Guide to Aeronautics
	The Wright Way to Fly
	Getting off the Ground into the Smart Skies
_	
☐ Challenges IF SELECTED, ASK:	Getting the brop on riight with the Arianes
	nges lessons were presented? Select one or more.
	Touchdown
	On Target
	Spacecraft Structures
	Thermal Protection Systems
_	
☐ Design Process IF SELECTED, AS	
Which Design Process lessons were presented? Select one or	
more.	
	Spaghetti Anyone: Designing with Pasta
	Space Place: Make a Balloon Powered Nanorover
	Project X51 Water Rocket
	Solar Oven
	Mars Pathfinder Egg Drop
	Lunar Plant Growth Chamber
	NASA Student Glovebox
	Water Filtration System
■ Exploration IF SELECTED, ASK:	,
•	ation lessons were presented? Select one or more.
·	NASA Mission Simulator
	Moon Rovers
	Crew Exploration Vehicle
	Landing a Rover

	■ Robotics IF SEL	ECTED, ASK:	
		Which Robotic	cs lessons were presented? Select one or more.
			Using Robotics
			Robotics: Hands Down!
			Heavy Lifter
Ţ	☐ Rocketry IF SEL	ECTED, ASK:	
		Which Rocket	ry lessons were presented? Select one or more.
			Heavy Lifting
			Nose Cone Aerodynamics
			Ride the Wind: Compressed Air Rocketry
4. Which L	ife Science units \	were addresse	d? Select one or more.
Ţ	■ Body IF SELECTE	D, ASK:	
			essons were presented? Select one or more.
			Train Like an Astronaut
			Brain in Space
			Space Adaptations
	☐ Food		
Ţ	Life Out There	•	
			t There lessons were presented? Select one or more.
			Search for Life on Other Worlds
		u	Search for Life On Other Worlds: Observing and
		_	Classifying Life
		u	Astrobiology: Science Learning Activities for
			Afterschool
			Chains Games
			It's Just Right
			The Shape of Things and from the Outside
			The Suns Habitable Zone
г			What Can Life Tolerate
,	☐ Plants IF SELECT		lossans ware presented? Salast one or mare
			lessons were presented? Select one or more.
			Light Effects On Plant Behavior Have Seed Will Travel
			Living Clocks
			Gravitropism- How do Plants "know" Which Way to
		_	Grow?
	☐ Survival IF SELE	CTED. ASK:	0.0
_			al lessons were presented? Select one or more.
			Cool Spacesuits
			Field Trip to the Moon
			Survival in the Environment of Space

5.	Which Physical Science units were addressed? Select one or more.	
	Aeronautics IF SELECTED, ASK:	
	Which Aeronautics lessons were presented? Select one or more.	
	☐ Bag Balloon	
	☐ Four Forces of Flight	
	☐ Jet Propulsion	
	☐ Air Foils	
	Designing Aircraft in 5 Easy Steps	
	☐ Future Flight Design	
	Bernoulli and More Bernoulli	
	Fluttering Fun, Points of Balance	
	Controlling the Plane	
	☐ Force and Motion IF SELECTED, ASK:	
	Which Force and Motion lessons were presented? Select one or	
	more.	
	☐ Danger: Space Debris	
	☐ Inertia and Friction	
	☐ Thrust and Acceleration	
	☐ Projectile Flight	
	Properties of Matter IF SELECTED, ASK:	
	Which Properties of Matter lessons were presented? Select one or	
	more.	
	☐ States of Matter	
	☐ Hidden Properties ☐ NASA Student Glovebox	
	■ NASA Student Glovebox■ Nature of Salt	
	☐ Antacid Tablet Race	
	☐ Waves and Optics IF SELECTED, ASK:	
	Waves and Optics in Selected, Ask. Which Waves and Optics lessons were presented? Select one or	
	more.	
	☐ Wave Measurement	
	☐ Manipulating Electromagnetic Waves	
	☐ Making Use of the Electromagnetic Spectrum	
	☐ Gravity IF SELECTED, ASK:	
	Which Gravity lessons were presented? Select one or more.	
	Gravity Games	
	☐ Fighting Gravity – A matter of balance	
	☐ Heavy Duty Topics	

C. Attendance

Note: these questions will differ depending on the length of the PD sessions.

IF THE PD SESSION WAS OFFERED FOR ONE DAY OR LESS (PER RESPONSE IN A)

Number of classroom teachers enrolled	
	+
Number of informal educators (e.g., youth	
development leaders, museum curators)	
enrolled	
	+
Number of others enrolled (e.g.,	
undergraduate students)	
	=
Total number enrolled in this PD session	
Number of classroom teachers attending	
	+
Number of informal educators attending	
	+
Number of others attending (e.g.,	
undergraduate students)	
	=
Total number attending this PD session	
Total number of classroom teachers in this	
session who attended a previous PD session	
Total number of informal educators in this	
session who attended a previous PD session	
IF THE PD SESSION WAS OFFERED FOR MORE THAN ONE DAY:	
Number of classroom teachers enrolled	
number of classionii teachers emolied	

Number of classroom teachers enrolled	
	+
Number of informal educators enrolled	
	+
Number of others enrolled (e.g., undergraduate students)	
	=
Total number enrolled at this PD session	
	1
Number of classroom teachers at start of this PD session	

Number of informal educators at start of this PD session		
	+	
Number of others at start of this PD session (e.g., undergraduate students)		
	=	
Total number at start of this PD session		
Number of classroom teachers at end of this PD session		
. 5 55551611	+	
Number of informal educators at end of this PD session		
	+	
Number of others at end of this PD session (e.g., undergraduate students)		
	=	
Total number at end of this PD session		
Total number of classroom teachers in this session who attended a previous PD session		
Total number of informal educators in this session who attended a previous PD session		
D. NASA Support Tools		
NASA educational materials used during this PD	session (choose all that apply):	
Video		
Activity Demonstration		
Toolkit, NASA websites		
Online learning resource	Online learning resource	
NASA equipment	NASA equipment	
Exhibits	Exhibits	
Learning games	Learning games	
Other, please specify:		
Commontes		
Comments:		