

## **Appendix 10: Crosswalk of Teacher Survey Items**

## Crosswalk of Teacher Survey Items

Survey Item	Research Question <sup>1</sup>	Purpose <sup>2</sup>	Source
<b>Respondent Background and Demographic Information</b>			
Contact information		A	A
Education level			
<i>Highest educational achievement</i>	RQ1	D,C	D
<i>Science-related major of teacher in college or beyond</i>	RQ1	D,C	A
Gender, race/ethnicity	RQ1	D,C	E
Participation in Sol PD during 2011 or 2012	RQ 1	C	A
<b>NASA Resources and Content Area</b>			
Frequency of accessing and using NASA resources			
<i>How often do you plan to use NASA resources in coming school year</i>	RQ3	D	A
<i>How often you view NASA resources for potential use in classroom instruction</i>	RQ3	O	A
<i>How often you use NASA resources in classroom instruction</i>	RQ3	O	A
<i>NASA resources used</i>	RQ3	O	A
Level of comfort teaching NASA content areas	RQ3	O	A
<b>Teaching experience</b>			
Main occupation (K-12 teacher or other)	RQ1	D,C	B
Current teaching certification status	RQ1	D,C	C
Content area of certification	RQ1	D,C	B
Number of years as a K-12 teacher	RQ1	D,C	F
Number of years teaching STEM related topics	RQ1	D,C	F
Grade level(s) taught during most recent academic year	RQ1	D,C	F
Subject(s) taught during most recent academic year	RQ1	D,C	F

### <sup>1</sup>Research Questions Answered by Teacher Survey

RQ1: Who participates in Sol?

RQ3: Does comfort in teaching NASA topics and access/use of NASA resources change between baseline and summer follow-up surveys? If so, are these changes larger among teachers at some awardee sites than others? If a change is detected, does comfort in teaching NASA topics and access/use of NASA content and resources change between the summer follow-up survey and the school year follow-up surveys? If so, are these changes larger among teachers at some awardee sites than others?

### <sup>2</sup>Purpose of Item

A: indicates that the variable from this item is used for administrative purposes (e.g., longitudinal tracking, pre and post survey data linking)

D: indicates that the variable from this item is used in descriptive analysis

O: indicates that the variable from this item is used as an outcome

C: indicates that the variable from this item is used as a control variable

### <sup>3</sup>Source of Item

A: Program specific item developed for the national evaluation of Sol

B: Item drawn from the National Center for Education Statistics (NCES) Schools and Staffing Survey (SASS), 2008-2009 Teacher Follow-up Survey Questionnaire

C: Item drawn from the International Association for the Evaluation of Educational Achievement (IEA) Trends in International Mathematics and Science Study 2003 (TIMSS)

D: Item drawn from the NCES Teacher Compensation Survey, 2009-2010 Questionnaire

E: Item drawn from the Office of Management and Budget (OMB) Provisional Guidance on the Implementation of the 1997 Standards for Federal Data on Race and Ethnicity, 2000

F: Item drawn from the U.S. Department of Education, Institute of Education Students (IES) National Longitudinal Transition Study-2 (NLTS2), Teacher Survey