Appendix 10: Crosswalk of Teacher Survey Items

Crosswalk of Teacher Survey Items

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| **Survey Item** | **Research Question1** | **Purpose2** | **Source**  |
|
| **Respondent Background and Demographic Information**  |  |  |  |
| Contact information |  | A | A |
| Education level |  |   |   |
|  | *Highest educational achievement* | RQ1 | D,C | D |
|  | *Science-related major of teacher in college or beyond* | RQ1 | D,C | A |
| Gender, race/ethnicity | RQ1 | D,C | E |
| Participation in SoI PD during 2011 or 2012 | RQ 1 | C | A |
| **NASA Resources and Content Area** |  |  |  |
| Frequency of accessing and using NASA resources |  |   |   |
|  | *How often do you plan to use NASA resources in coming school year* | RQ3 | D | A |
|  | *How often you view NASA resources for potential use in classroom instruction* | RQ3 | O | A |
|  | *How often you use NASA resources in classroom instruction* | RQ3 | O | A |
|  | *NASA resources used* | RQ3 | O | A |
| Level of comfort teaching NASA content areas | RQ3 | O | A |
| **Teaching experience** |  |  |  |
| 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 |

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| **1Research Questions Answered by Teacher Survey** |  |  |  |
|  | RQ1: Who participates in SoI? |
|  | 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? |
| **2Purpose 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 |
| **3Source of Item** |  |  |  |
|  | A: Program specific item developed for the national evaluation of SoI |
|  | 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 |