# Math and Science Partnership Program 

# Initial Survey for K-12 Institute Participants 

Sponsored by the National Science Foundation

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#### Abstract

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## Public Burden

Paperwork Reduction Act Notice. The Paperwork Reduction Act of 1995 says we must tell you why we are collecting this information, how we will use it and whether you have to give it to us. The reasons and purpose of this survey are described in the introduction and instructions for this survey and your response is voluntary. Failure to provide full and complete information, however, may reduce the possibility of NSF continuing support for the award or project subject to this monitoring survey. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The OMB control number for this survey is 3145-0199. The estimated average burden associated with this collection of information is 25 hours per respondent. Comments concerning the accuracy of this burden estimate and suggestions for reducing the burden should be sent to Suzanne Plimpton, Reports Clearance Officer for OMB 31450199, NSF/DAAS, 4201Wilson Boulevard, Arlington, VA 22230.

## Initial Survey of K-12 Institute Participants for the [INSERT SCHOOL YEAR]

The National Science Foundation (NSF) is collecting annual information about each of its Math and Science Partnership (MSP) projects. The purpose is to assess the overall implementation of the MSP program and to monitor the progress of individual MSP grants.

This form is designed to obtain information from each $\mathbf{K}-\mathbf{1 2}$ teacher and administrator who has enrolled in a MSP Institute program during the [INSERT SCHOOL YEAR]. For the purposes of this collection, this includes any teacher or administrator enrolled in the summer institute following the [INSERT SCHOOL YEAR]. The Principal Investigator (PI) of one of the MSP Institutes has identified you as being an appropriate respondent.

## GLOSSARY

## Race and ethnicity terms defined for Questions 2 and 3

Hispanic or Latino. A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race.

American Indian or Alaska Native. A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.

Asian. A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.

Black or African American. A person having origins in any of the black racial groups of Africa.
Native Hawaiian or Other Pacific Islander. A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific islands.

White. A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

## Course descriptions for Question 12

High School Level 1 Mathematics. Includes Algebra 1; Elementary; Beginning; Unified Math 1; Integrated Math 1; Algebra 1B (second year of two-year sequence for Algebra 1); Math B.

High School Level 2 Mathematics. Includes Geometry; Plane Geometry; Integrated Math 2; Unified Math II; Math C.

High School Level 3 Mathematics. Includes Algebra 2; Intermediate Algebra; Algebra and Trigonometry; Advanced Algebra; Algebra and Analytic Geometry; Integrated Math 3; Unified Math III.

High School Level 4 Mathematics. Includes Trigonometry; College Algebra; Algebra 3; Pre-calculus; Analytic/Advanced Geometry; Trigonometry and Analytic/Solid Geometry; Advanced Math Topics; Introduction to College Math; Number Theory; Math IV; College Preparation Senior. Math; Elementary Functions; Finite Math; Math Analysis; Numerical Analysis; Discrete Math; Probability; Statistics.

High School Level 5 Mathematics. Includes Calculus and Analytic Geometry; Calculus; Abstract Algebra; Differential Equations; Multivariate Calculus; Linear Algebra; Theory of Equations; and Vectors/Matrix Algebra.

Earth Science. Includes Earth Science; Earth-Space Science; Regents Earth Science; Space Science; Aerospace Science.

Integrated Science. Includes SS\&C; Project 2061; Integrated Science 9, 10; Unified; Comprehensive Ideas of Investigations in Science; Life/Physical Science; Earth/Life/ Physical Science; Coordinated Science.

## INSTRUCTIONS FOR COMPLETING THE SURVEY

Feedback from K-12 teachers and administrators participating in the MSP program is crucial for understanding the strengths and weaknesses of the MSP program.

Neither NSF nor the Federal Government will maintain names or contact information associated with this survey. However, this information is held by the awardee institution. Your responses to the questions, however, will not be shared with the PI except in summary form.

This survey will take approximately 10 to 15 minutes of your time. Please select the best response(s) for each item in the survey. DO NOT leave any questions unanswered.

1. Gender: (Circle one response)

Male 1

Female.................................................. 2
Choose not to respond............................ 3
2. Which of the following categories describes your ethnicity? (Circle one response.)

Hispanic or Latino................................. 1
Not Hispanic or Latino........................... 2
Choose not to respond............................ 3
3. Which of the following categories describes your race? (Circle one response for each item, unless you choose not to respond to this question. If you choose not to respond, do not circle"yes" or "no" for items $a-e$, circle "yes" for item f.)

|  | Yes | No |
| :---: | :---: | :---: |
| a. American Indian or Alaska Native.................................................... | 1 | 2 |
| b. Asian. | 1 | 2 |
| c. Black or African American.. | 1 | 2 |
| d. Native Hawaiian or Other Pacific Islander. | 1 | 2 |
| e. White.. | 1 | 2 |
| f. Choose not to respond..................................................................... | 1 |  |

## 4. K-12 school name (or district):

NOTE - If you work for a district instead of a solitary school, please name the district. If you work for more than one school but not an entire district, please list the names of the schools.
5. What is the designation of the $\mathbf{K} \mathbf{- 1 2}$ school(s) in which you work? (Circle one response)

Elementary school .................................................................................. 1
Middle school ........................................................................................ 2
K-8 school ............................................................................................ 3
K-12 school............................................................................................ 4
Middle/High school................................................................................ 5
High school ........................................................................................... 6
Ungraded school (specify)__ 7
Other (specify): $\quad 8$
6. Which of these do you consider to be your primary position during the [INSERT SCHOOL YEAR]? (Circle one response.)

Elementary school teacher ..... 1

Middle school teacher............................................................................. 2
High school teacher................................................................................ 3
Curriculum specialist ............................................................................. 4
School-wide subject-specific specialist.................................................... 5
District-wide subject-specific specialist................................................... 6
Department head ................................................................................... 7
Principal ................................................................................................ 8
Vice principal......................................................................................... 9
Other (specify): __ 10
7. How many years have you worked in this position at your current school (or district)? $\qquad$
8. How many years have you worked in this type of position in schools (or districts) other than your current school (or district)?

## 9. Which of the following best describes your current teaching situation? (Circle one response.)

I am an administrator with NO teaching responsibilities. $\qquad$ 1 (Go to Question 13.)
I am responsible for teaching all core subjects with one classroom of students $\qquad$
I teach selected core subjects for several classes of students $\qquad$ 3 (Continue with Question 10.)
Other (specify):
4 (Continue with Question 10.)
10. What grade(s) do you currently teach or provide other services for a mathematics or science subject? (Circle one response for each item.)

|  | Yes | No |
| :---: | :---: | :---: |
| a. Pre-kindergarten........................................................................... | 1 | 2 |
| b. Kindergarten.. | 1 | 2 |
| c. 1st grade..................................................................................... | 1 | 2 |
| d. 2nd grade.. | 1 | 2 |
| e. 3rd grade.. | 1 | 2 |
| f. 4th grade.. | 1 | 2 |
| g. 5th grade.. | 1 | 2 |
| h. 6th grade. | 1 | 2 |
| i. 7th grade.. | 1 | 2 |
| j. 8th grade. | 1 | 2 |
| k. 9th grade.. | 1 | 2 |
| 1. 10th grade................................................................................... | 1 | 2 |
| m. 11th grade.. | 1 | 2 |
| n. 12th grade... | 1 | 2 |
| o. Ungraded (specify) | 1 | 2 |

11. Please estimate the percentage of your daily time spent in classroom teaching: $\qquad$ \%
12. For which mathematics or science subject(s) do you currently teach or provide other services? (Circle one response for each item. If you teach or provide other services for middle school mathematics, please indicate whether or not the course includes Algebra 1, Geometry, or Algebra 2.)

## Yes No

## Mathematics

a. Elementary school mathematics.............................................................. 1 2
b. Middle school mathematics..................................................................... 1 2

- Includes Algebra 1
- Includes Geometry
- Includes Algebra 2
c. High school Level 1 Mathematics............................................................ 1 2
d. High school Level 2 Mathematics............................................................ 1 2
e. High school Level 3 Mathematics........................................................... 1 2
f. High school Level 4 Mathematics............................................................ 1 2
g. High school Level 5 Mathematics............................................................ 1 2
h. AP Calculus (AB)................................................................................... 1 2
i. AP Calculus (BC)................................................................................... 1 2
j. AP Statistics........................................................................................... 1 2
k. Other (specify): $\quad 1 \quad 2$


## Science

l. Elementary school science...................................................................... 1 2
m. Middle school science............................................................................. 1 2
n. Non-AP Biology.................................................................................... 1 2
o. Non-AP Chemistry................................................................................. 1 2
p. Non-AP Physics...................................................................................... 1 2
q. Earth Science ......................................................................................... 1 2
r. Integrated Science .................................................................................. 1 2
s. AP Biology............................................................................................ 1 2
t. AP Chemistry......................................................................................... 1 2
u. AP Physics............................................................................................. 1 2
v. Other (specify): $\quad 1 \quad 2$

Computer Science
w. Non-AP computer science....................................................................... 1 2
x. AP computer science.............................................................................. 1 2
13. What degrees have you earned? (For each item, please circle all that apply-or leave blank if none apply.)

NOTE—Degree options do not include certifications, certificates, endorsements, or licensures. If you have earned a degree in mathematics or science education, circle both Mathematics or Science and Education.

| Type of degree |  | Degree field |  |  |  |
| :--- | :--- | :---: | :---: | :---: | :---: |
|  |  | Science | Education | Other |  |
| a. Bachelor's degree | 1 | 2 | 3 | 4 |  |
| b. Master's degree | 1 | 2 | 3 | 4 |  |
| c. Ph.D. | 1 | 2 | 3 | 4 |  |
| d. Ed.D. | 1 | 2 | 3 | 4 |  |
| e. Professional degree (e.g., M.D., LPN) | 1 | 2 | 3 | 4 |  |
| f. Specialist degree | 1 | 2 | 3 | 4 |  |
| g. Other (specify): | 1 | 2 | 3 | 4 |  |

14a. Are you currently working on a degree?
Yes............................................................................................................. 2 (Continue with Question 14b.)
(Go to Question 15.)

14b. What degrees are you currently working on? (For each item, please circle all that apply-or leave blank if none apply.)

NOTE—Degree options do not include certifications, certificates, endorsements, or licensures. If you have earned a degree in mathematics or science education, circle both Mathematic or Science and Education.

| Type of degree |  | Degree field |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  |  | Science | Education | Other |  |
| a. Bachelor's degree | 1 | 2 | 3 | 4 |  |
| b. Master's degree | 1 | 2 | 3 | 4 |  |
| c. Ph.D. | 1 | 2 | 3 | 4 |  |
| d. Ed.D. | 1 | 2 | 3 | 4 |  |
| e. Professional degree (e.g., M.D., LPN) | 1 | 2 | 3 | 4 |  |
| f. Specialist degree | 1 | 2 | 3 | 4 |  |
| g. Other (specify) | 1 | 2 | 3 | 4 |  |

15. Which of the following teaching certifications do you hold within your state? (Circle one response for each item.)

d. Middle school: General ..... 12
e. Middle school: Mathematics. ..... $1 \quad 2$
f. Middle school: Science ..... 12
g. High school: Mathematics ..... 1 ..... 2
h. High school: Science-General. ..... 1 ..... 2
i. High school: Biology. ..... 12
j. High school: Chemistry ..... 1 ..... 2
k. High school: Physics ..... 12
16. High school: Earth Science ..... 1 ..... 2
m. Special Education ..... 1 ..... 2
n. ESL/Bilingual. ..... 12
o. Other subject area within state endorsements (specify): ..... 12
17. Which of the following have you successfully completed? (Circle one response for each item.)
Yes Noa. National Board Certification®: .............................................................. 1 2b. Praxis ${ }^{1} I^{\text {TM }}$ :12
...............................................................................................................
c. Praxis $\mathrm{III}^{\mathrm{TM}}$.12
d. Other (specify): ..... 12e. None of the above.1
18. Is this the first time you have been involved in efforts to work with faculty from colleges or universities to reform or enhance $\mathbf{K} \mathbf{- 1 2}$ instructional practices? (Circle one response.)

Yes.............................................................. 1
No. 2

[^0]18. Which of the following leadership roles did you hold (in your school/or at a district level) during the [INSERT SCHOOL YEAR]? (Circle one response for each item.)
Yes No
a. Served on curriculum committee.............................................................. 1 2
b. Served on textbook adoption committee.................................................. 1 2
c. Served on other school-wide or district-wide committee or task force ...... 1 2

If yes, please describe:
d. Mentored novice teachers........................................................................ 1 2
e. Involved in peer coaching activities......................................................... 1 2
f. Served as Lesson Study leader/participant................................................ 1 2
g. Served as officer in a local professional organization for science and/or math 1
h. Served as committee chair/officer/representative for a national professional
organization (e.g., NSTA, NCTM) ....................................................... 1 2
i. Served on business/industry math or science task force in local area......... 1 2
j. Served as math/science supervisor........................................................... 1 2
k. Other (specify): $\quad 1 \quad 2$
19. Which of the following professional development activities have you participated in during the past 3 school years? (Circle one response for each item.)

|  | Yes | No |
| :---: | :---: | :---: |
| a. Learning content knowledge related to mathematics or science........... | 1 | 2 |
| b. Learning content knowledge not related to mathematics or science.......... | 1 | 2 |
| c. Selecting and adapting instructional material....................................... | 1 | 2 |
| d. Using research to inform curriculum development................................ | 1 | 2 |
| e. Learning strategies for aligning curriculum with standards.. | 1 | 2 |
| f. Working with diverse and/or minority students, special education students, and/or students with limited English proficiency $\qquad$ | 1 | 2 |
| g. Developing leadership skills in working with peers.............................. | 1 | 2 |
| h. Developing skills in working with parents, school boards, or others outside of the school $\qquad$ | 1 | 2 |
| i. Using technology in instruction........................................................ | 1 | 2 |
| j. Learning how to use data and statistics............................................... | 1 | 2 |
| k. Other (specify): | 1 | 2 |

20. How did you become involved with the MSP Institute program? (Circle one response.)

Encouraged by others and decided to apply (e.g., other teachers, mentors, university
faculty members).
0
Noticed an open invitation and decided to apply 1
Recruited/designated by an administrator (excluding school principal) or specialist at the school, district, or state level (e.g., superintendent, curriculum specialist, department head or chair, or mathematics/science coordinator, supervisor, or coach) 2
Recruited/designated specifically by my school principal ......................... 3
Recruited/designated by local leadership council/curricular committee or professional development program or organization 4
$\qquad$
Other (specify): 5


[^0]:    ${ }^{1}$ The Praxis was formerly called the National Teachers Exam (NTE).

