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Appendix H
Web-Based Principal Survey

AMSTI Principal Survey

The collection of information in this study is authorized by Public Law 107-279 Education Sciences Reform Act of 2002, Title I, Part C, Sec. 151(b) and Sec. 153(a). Participation is voluntary. You may skip questions you do not wish to answer; however, we hope that you will answer as many questions as you can. Your responses are protected from disclosure by federal statute (PL 107-279 Title I, Part C, Sec. 183). All responses that relate to or describe identifiable characteristics of individuals may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose, unless otherwise compelled by law. Data will be combined to produce statistical reports. No individual data that links your name, school name, address, telephone number, or identification number with your responses will be included in the statistical reports.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is xxxx-xxxx (expiration date: __/__/__). The time required to complete this information collection is estimated to average 30 minutes, including the time to review instructions, search existing data resources, gather the data needed, and complete the information collection. If you have any comments concerning the accuracy of the time estimate or suggestions for improving this form, please contact: the Department of Education 50 North Ripley Street PO Box 302101 Montgomery, AL 36104. If you have comments or concerns regarding the status of your individual submission, e-mail directly to: Laurel Sterling at lsterling@empiricaleducation.com or call toll free 1-888-486-8886 ext. 127.

Identification

1. Please type your first and last name here _____

2. Prior to the 2006/07 school year, how many years have you worked as a school administrator?
____

3. Prior to the 2006/07 school year, how many years have you been the principal at this school?
____

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4a. During the 2005/06 school year, what would have helped **grade 4-8** teachers improve their **math** instruction? Select up to four items that you think would have helped the most.
__Better quality curriculum
__Better organization of lessons
__More planning time to develop lessons
__Quality hands-on activities
__Supplies for hands-on activities
__Accessing technology
__Accessing quality assessments
__Accessing performance assessments
__Professional development on math content knowledge
__Professional development on instructional strategies
__Professional development on the use of technology in instruction
__On-Site teacher support
__Other _____
__Don't know
__Not Applicable

4b. During the 2005/06 school year, what would have helped **grade 4-8** teachers improve their **science** instruction? Select up to four items that you think would have helped the most.
__Better quality curriculum
__Better organization of lessons
__More planning time to develop lessons
__Quality hands-on activities
__Supplies for hands-on activities
__Accessing technology
__Accessing quality assessments
__Accessing performance assessments
__Professional development on math content knowledge
__Professional development on instructional strategies
__Professional development on the use of technology in instruction
__On-Site teacher support
__Other _____
__Don't know
__Not Applicable

Instruction

Please answer the following questions about math and science instruction at your school during the 2005/06 school year, ***for grades 4 through 8 only.***

For questions 5a and 5b only, Consider the following description of Inquiry-Based Instruction in which students do ***all*** of the following activities as part of the learning process:

>Make observations
>Pose questions
>Examine books and other sources of information to see what is already known
>Plan investigations
>Review what is already known in light of experimental evidence
>Use tools to *gather, analyze, and interpret data*
>Propose answers, explanations, and predictions
>Communicate the results

5a. Approximately how much instruction conformed to this Inquiry-based model *in math classrooms at your school?*
__76% to 100%
__51% to 75%
__26% to 50%
__0% to 25%
__Don't know
__Not Applicable

5b. Approximately how much instruction conformed to this Inquiry-based model *in science classrooms at your school?*
__76% to 100%
__51% to 75%
__26% to 50%
__0% to 25%
__Don't know
__Not Applicable

6a. How much instruction incorporated hands-on activities ***in Math Classrooms?***
__76% to 100%
__51% to 75%
__26% to 50%
__0% to 25%
__Don't know
__Not Applicable

6b. How much instruction incorporated hands-on activities ***in Science Classrooms?***
__76% to 100%
__51% to 75%
__26% to 50%
__0% to 25%
__Don't know
__Not Applicable

7a. How much instruction ***in Math Classrooms*** required that students use higher-order thinking skills? (i.e., where students advance from skills such as *focusing and information gathering* to skills such as *integrating and evaluating*)
__76% to 100%
__51% to 75%
__26% to 50%
__0% to 25%
__Don't know
__Not Applicable

7b. How much instruction ***in Science Classrooms*** required that students use higher-order thinking skills? (i.e., where students advance from skills such as *focusing and information gathering* to skills such as *integrating and evaluating*)
__76% to 100%
__51% to 75%
__26% to 50%
__0% to 25%
__Don't know
__Not Applicable

8. Did science teachers engage students in long-term (lasting a week or longer) research projects?
__Yes
__No
__Don't know
__Not Applicable

9a. How frequently did teachers employ formative assessments to guide their instruction *in math classes?*
__On a daily basis
__At least weekly
__At least monthly
__At least quarterly
__At least twice a year
__Never
__Don't know
__Not Applicable

9b. How frequently did teachers employ formative assessments to guide their instruction *in science classes?*
__On a daily basis
__At least weekly
__At least monthly
__At least quarterly
__At least twice a year
__Never
__Don't know
__Not Applicable

10a**.** How frequently did teachers use performance-based assessments *in math classes*? (i.e., assessing students based on their application of knowledge, skills, and work habits through the performance of tasks that are meaningful and engaging to students)
__On a daily basis
__At least weekly
__At least monthly
__At least quarterly
__At least twice a year
__Never
__Don't know
__Not Applicable

10b. How frequently did teachers use performance-based assessments *in science classes*? (i.e., assessing students based on their application of knowledge, skills, and work habits through the performance of tasks that are meaningful and engaging to students)
__On a daily basis
__At least weekly
__At least monthly
__At least quarterly
__At least twice a year
__Never
__Don't know
__Not Applicable

Professional Development

Please answer the following questions about the participation of this school's math and science teachers in professional development during the 2005/06 school year, including the summer of 2005, ***for grades 4 through 8 only.***

11a. How many teachers participated in professional development *in math* (not including on-site support or collaboration meetings)?
__76% to 100%
__51% to 75%
__26% to 50%
__0% to 25%
__Don't know
__Not Applicable

11b. How many teachers participated in professional development *in science* (not including on-site support or collaboration meetings)?
__76% to 100%
__51% to 75%
__26% to 50%
__0% to 25%
__Don't know
__Not Applicable

12a. Which areas were included in the *math* professional development in which teachers participated? (select all that apply)
__Content Knowledge
__Pedagogy
__Technology Use
__Don't know
__Not Applicable

12b. Which areas were included in the *science* professional development in which teachers participated? (select all that apply)
__Content Knowledge
__Pedagogy
__Technology Use
__Don't know
__Not Applicable

13a. How frequently did teachers receive on-site support (e.g., mentoring or coaching) for improving their instruction *in math?*
__On a daily basis
__At least weekly
__At least monthly
__At least quarterly
__At least twice a year
__Never
__Don't know
__Not Applicable

13b. How frequently did teachers receive on-site support (e.g., mentoring or coaching) for improving their instruction *in science?*
__On a daily basis
__At least weekly
__At least monthly
__At least quarterly
__At least twice a year
__Never
__Don't know
__Not Applicable

14a. How frequently did teachers meet collaboratively with other teachers about teaching *math?*
__On a daily basis
__At least weekly
__At least monthly
__At least quarterly
__At least twice a year
__Never
__Don't know
__Not Applicable

14b. How frequently did teachers meet collaboratively with other teachers about teaching *science?*
__On a daily basis
__At least weekly
__At least monthly
__At least quarterly
__At least twice a year
__Never
__Don't know
__Not Applicable

Potential Value of Technology

15. To what extent do you agree with the following statements about education technology? Mark one box per row.
(1=Strongly Disagree, 2=Somewhat Disagree, 3=Neither Disagree nor Agree 4=Somewhat Agree, 5=Strongly Agree)
a. Educational technology can be used to improve instructional practice.___
b. Educational technology can be used to improve teachers' subject matter knowledge.___
c**.** Educational Technology can be used to improve student learning.___
d. Educational technology can be used to improve students' performance on standardized tests.
___
e. Educational technology (the availability of)can help to narrow the achievement gap between traditionally underserved students and other students.___

Availability of Technology, Tools, and Resources Schoolwide

Please answer the following questions about the availability of technology, tools, and resources for this school's math and science classes during the 2005/06 school year *schoolwide*.

16. During the 2005/06 school year, how many computers were used by staff and students at this school, *(include all grade levels)*?
__more than 1000
__751 to 1000
__501 to 750
__301 to 500
__201 to 300
__101 to 200
__51 to 100
__26 to 50
__1 to 25
__0
__Don't know
__Not Applicable

17. During the 2005/06 school year, how many computers were available for students to use in this school's centers, labs, or other non-classroom areas, ***(include all grade levels)***?
__more than 1000
__751 to 1000
__501 to 750
__301 to 500
__201 to 300
__101 to 200
__51 to 100
__26 to 50
__1 to 25
__0
__Don't know
__Not Applicable

Technology for Math and Science Grades 4-8

Please answer the following questions about the availability of technology, tools, and resources for this school's math and science classes during the 2005/06 school year, ***for grades 4 through 8 only.***

18a. How many computers were available for students to use *in the classroom* for *math* lessons?
__One computer for each student
__One computer for every two students
__One computer for every three students
__One computer for every four students
__One computer for every five students
__One computer for every six or more students
__Did not have computers in the classroom
__Don't know
__Not Applicable

18b. How many computers were available for students to use *in the classroom* for *science* lessons?
__One computer for each student
__One computer for every two students
__One computer for every three students
__One computer for every four students
__One computer for every five students
__One computer for every six or more students
__Did not have computers in the classroom
__Don't know
__Not Applicable

19a. How many graphing calculators were available for students to use in the classroom for *math lessons*?
__One graphing calculator for each student
__One graphing calculator for every two students
__One graphing calculator for every three students
__One graphing calculator for every four students
__One graphing calculator for every five students
__One graphing calculator for every six or more students
__Did not have graphing calculators in the classroom
__Don't know
__Not Applicable

19b. How many graphing calculators were available for students to use in the classroom *for science lessons*?
__One graphing calculator for each student
__One graphing calculator for every two students
__One graphing calculator for every three students
__One graphing calculator for every four students
__One graphing calculator for every five students
__One graphing calculator for every six or more students
__Did not have graphing calculators in the classroom
__Don't know
__Not Applicable

20a. How many scientific calculators were available for students to use in the classroom for *math lessons*?
__One scientific calculator for each student
__One scientific calculator for every two students
__One scientific calculator for every three students
__One scientific calculator for every four students
__One scientific calculator for every five students
__One scientific calculator for every six or more students
__Did not have scientific calculators in the classroom
__Don't know
__Not Applicable

20b. How many scientific calculators were available for students to use in the classroom for science *lessons*?
__One scientific calculator for each student
__One scientific calculator for every two students
__One scientific calculator for every three students
__One scientific calculator for every four students
__One scientific calculator for every five students
__One scientific calculator for every six or more students
__Did not have scientific calculators in the classroom
__Don't know
__Not Applicable

21a. How many basic/4 function calculators were available for students to use in the classroom *for math lessons*?
__One basic/4 function calculator for each student
__One basic/4 function calculator for every two students
__One basic/4 function calculator for every three students
__One basic/4 function calculator for every four students
__One basic/4 function calculator for every five students
__One basic/4 function calculator for every six or more students
__Did not have basic/4 function calculators in the classroom
__Don't know
__Not Applicable

21b. How many basic/4 function calculators were available for students to use in the classroom *for science lessons*?
__One basic/4 function calculator for each student
__One basic/4 function calculator for every two students
__One basic/4 function calculator for every three students
__One basic/4 function calculator for every four students
__One basic/4 function calculator for every five students
__One basic/4 function calculator for every six or more students
__Did not have basic/4 function calculators in the classroom
__Don't know
__Not Applicable

22a. Were the *math classrooms* well equipped with *manipulatives*?
__Yes, manipulatives were available for all students in all classes.
__The school had some manipulatives, but not enough for all students in all classes.
__No, the school did not have manipulatives.
__Don't know
__Not Applicable

22b. Were the science *classrooms* well equipped with *materials (for hands-on science)*?
__Yes, sufficient materials were available for all students in all science classes.
__The school had some materials, but not enough for all students in all classes.
__No, the school did not have materials for hands-on science lessons.
__Don't know
__Not Applicable

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Current Scientific and Mathematical Instruments

During the 2005/06 school year, were the following technologies available to teachers and/or students in classrooms or in the school's labs, centers or other areas ***for grades 4 to 8*** ? Check all that apply.

23a. Sensors for use with computers
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

23b. Sensors for use with graphing calculators
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

23c. Probes for use with computers
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

23d. Probes for use with graphing calculators
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

Computers and Connectivity

During the 2005/06 school year, were the following technologies available to teachers and/or students in classrooms or in the school's labs, centers or other areas ***for grades 4 to 8*** ? Check all that apply.

23e. Desktop computer
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

23f. Laptop computer
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

23g. Personal digital devices (e.g. PDA, tablet computer, etc.)
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

23h. Technologies specific to content area (e.g. Geometer's Sketchpad, Probeware)
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

23i. Access to the Internet via telephone modem
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

23j. Access to high-speed Internet (e.g. through a cable modem or DSL)
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students
23k. School intranet access (i.e. electronic communication exclusively within the school)
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

Computer Peripherals and Software

During the 2005/06 school year, were the following technologies available to teachers and/or students in classrooms or in the school's labs, centers or other areas ***for grades 4 to 8*** ? Check all that apply.

24l. Printers
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

24m. CD-ROM or DVD Drive
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

24n. A device to project a computer screen for class viewing (LCD projector)
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

24o. Touch Screen
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

24p. Scanners
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

24q. Digital photography and/or video equipment
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

24r. Word processing software
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

24s. Spreadsheet software (e.g. Excel)
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

24t. Presentation software (e.g. PowerPoint)
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

24u. Multimedia editing or authoring tools (e.g. Hyper Studio)
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

24v. Email software
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

24w. Web page creation software (e.g. Dreamweaver)
__For teacher use in classrooms
__For teacher use in labs or other areas
__Not available for teachers
__For student use in classrooms
__For student use in labs or other areas
__Not available for students

Technical Support

How well was this school able to meet its needs for technical support?
(Answer each item below)

25a. Overall technical support needs
__Not Very Well
__Moderately Well
__Very Well
__Don't Know
__Not Applicable

25b. Installing equipment
__Not Very Well
__Moderately Well
__Very Well
__Don't Know
__Not Applicable

25c. Installing networks
__Not Very Well
__Moderately Well
__Very Well
__Don't Know
__Not Applicable

25d. Maintaining equipment
__Not Very Well
__Moderately Well
__Very Well
__Don't Know
__Not Applicable

26. Who had primary responsibility for supporting educational technology in this school during the 2005/06 school year? (Select one)
__Full-time, paid technology director/coordinator
__Part-time, paid technology director/coordinator
__Librarian/Media Specialist
__District staff (including district-provided help desk)
__Teacher or other staff as part of formal responsibilities
__Volunteers (including teachers, other school staff, and community members)
__Consultant/outside contractor
__No one
__Other. Please specify: _____
__Don't know
__Not Applicable

Community Support

During the 2005/06 school year, to what extent were community-based organizations (the chamber of commerce, small businesses, faith-based institutions) involved in supporting the math and/or science programs in your school?
(Answer each item below)

27a. Community Partners Provided Financial Support
__Not at all
__A little
__To a moderate extent
__A great extent
__Don't Know
__Not Applicable

27b. Community Partners Provided Technology/Equipment
__Not at all
__A little
__To a moderate extent
__A great extent
__Don't Know
__Not Applicable

27c. Community Partners Provided Refreshments for events such as parent nights or trainings
__Not at all
__A little
__To a moderate extent
__A great extent
__Don't Know
__Not Applicable

27d. Community Partners Provided School Supplies
__Not at all
__A little
__To a moderate extent
__A great extent
__Don't Know
__Not Applicable

27e. Community Partners Provided Tutors/Mentors
__Not at all
__A little
__To a moderate extent
__A great extent
__Don't Know
__Not Applicable

27f. Community Partners Provided Other Please Describe

_____

_____

Other Initiatives

28. Please list the initiatives in which your school participated during the 2005/06 school year.
__Alabama Reading Initiative
__Alabama Reading First Initiative
__Alabama Science In Motion
__LAMST
__Other _____
__Don’t know
__Not Applicable

29. Please list all math and science curricula used in your school during the 2005/06 school year, for grades 4-8 only.

_____

_____

30. Please provide any other comments you would like to share about math, science, and/or technology instruction, only for grades 4 – 8 at this school.

_____

_____

31. Please provide any other comments you would like to share about this research project or this survey?

_____

_____