Management Information System (MIS) 2011-2012: Understanding more about ITEST projects

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# 2011-2012 MIS Design

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Data Briefs

- Monthly, short, in-depth analysis of themes
- First Data Brief examines:
  - Research/Evaluation questions
  - Outcomes measured
  - Project findings
Percentage of projects reporting research and evaluation questions by outcome area

- Student Outcomes: 86% Research Questions, 72% Evaluation Questions
- Teacher Outcomes: 41% Research Questions, 55% Evaluation Questions
- Project Outcomes: 56% Research Questions, 63% Evaluation Questions
Project Findings

• Youth/Students – *Increased*:
  – STEM content knowledge and skills
  – Interest and engagement in STEM
  – Interest in preparation for STEM careers

• Teachers – *Improved*:
  – Pedagogical skills
  – STEM content knowledge and skills

• Project level – *Identified effective*:
  – Professional development models
  – Instructional strategies
Text Cloud of Project Summaries

students

teachers

STEM

science

program

data

interest

analysis

development

computer

workshop

high

school

content

learning

program

STEM

teachers

data

science

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learning

program

STEM
Next Steps

• Additional analysis of MIS data, trends over time (3 years of MIS)

• Future Data Brief themes may include:
  – Areas of expertise among PIs
  – Project partners
  – Dissemination practices
  – Project activities and characteristics
  – Participant descriptions (teachers, youth)
  – Instrumentation, including externally validated
  – Research and evaluation questions