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Title

EDU2: CENS Pre-College Application: Supporting the Educational Pipeline

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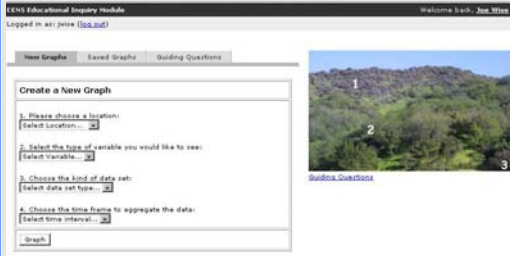


CENS Pre-College Application: Supporting the Educational Pipeline

M. Cook, K. Griffis, A. Harven, K. Kim, K. Millwood, W. Sandoval, V. Thadani, J. Wise, and D. Estrin

What is CENS Pre-College Application?

A reciprocal relationship between CENS technology and education



Sensing the Environment: Plant Adaptation
An interface to organize and display sensor data.

- Inquiry Modules
- Nest Box Activity
- Professional Development
- Acoustic/Imaging Application
- Educational Research



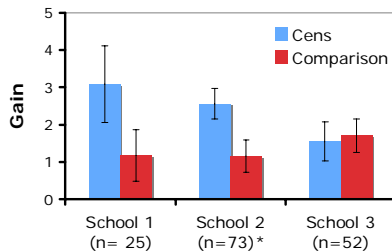
Sensing the Environment: Nest Box Visualization Tool

Field Test Results for Plant Adaptation Guided Inquiry Module

Tested in Three Local Schools

- 4 CENS teachers used our module.
- 4 comparison teachers taught the same CA standards.

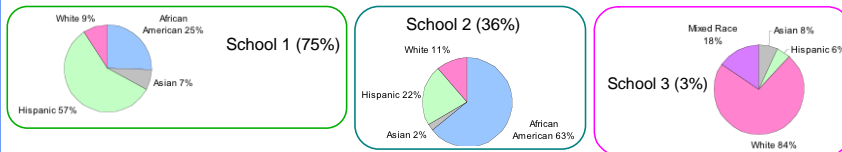
Greater learning gains for CENS students



“I thought that more experiments and hands-on learning is more interesting than just reading a textbook” – CENS student

“It was interesting because I made a hypothesis and tested it out with actual data” – CENS student

School Demographics



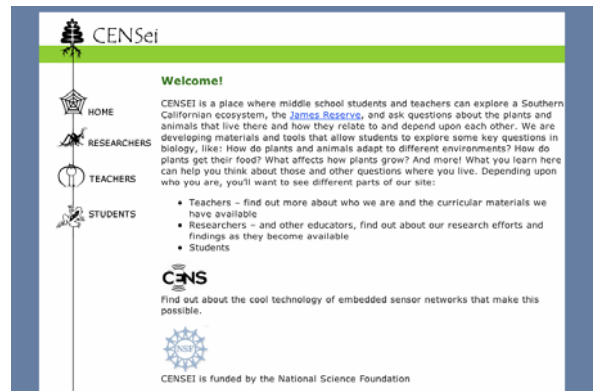
Numbers in parentheses are percentage of students receiving free or reduced lunch

CENSEI: CENS Education cyberInfrastructure (NSF ESI-0352572)

Web portal to middle school life science modules in ecology (using JR data)

- **Students** - access sequence of inquiry-based curricular modules
- **Teachers** - access to curricular materials and support
- **Researchers** - access to longitudinal performance data

Guided Module	Open Module	Self-Directed Module
Common Question Shared data set Multiple Answers	Common Question Multiple data sets Multiple Answers	Individual Questions Multiple data sets Multiple Answers
Focus on: Interpreting, Evaluating Data	Add'l Foci: Designing tests, Selecting data	Add'l Focus: Posing testable questions



Portal rollout scheduled for August, 2005