IDEAL Biology: A National Institutes of Health (NIH) Science Education Partnership Award (SEPA)
PI: J. Steve Oliver, PhD
Conceptualization -> Proposal -> Funding

THE GLASS HORSE

FUNDED BY:

SEPA

SCIENCE EDUCATION PARTNERSHIP AWARD

Supported by the National Center for Research Resources, a part of the National Institutes of Health

Collaboration required
COLLABORATE

Teacher Input

Testing and Feedback

Case Design

Case Redesign/Polish

Testing and Feedback from Students
COLLABORATE: MULTIPLE ASSESSMENT METHODS

Traditional multiple choice questions
- Pretest and posttest items

Embedded forced choice items
- Must answer correctly to move forward

Embedded text response items
- In depth rubrics created and applied to student responses
STUDY DESIGN

2011-2012 “No Treatment”
- < 450 students
- 6 teachers
- Pretest, posttest, 2nd posttest
- Attitude Instruments
- Document Analysis
- Participant Observation
- Interviews

2012-2013 “Treatment”
INNOVATE

Created by J. Steve Oliver 2009

- Inquiry-based
- Instructionally Robust
- Interactive
- Biological realism
- Engages and maintains interest among target population
LESSONS LEARNED

1. Collaboration requires time, leadership, patience, and “thick skin”

2. Interdisciplinary teams such as IDEAL biology foster innovative, creative knowledge production

3. We must remember we create “with” teachers, not “for” teachers
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