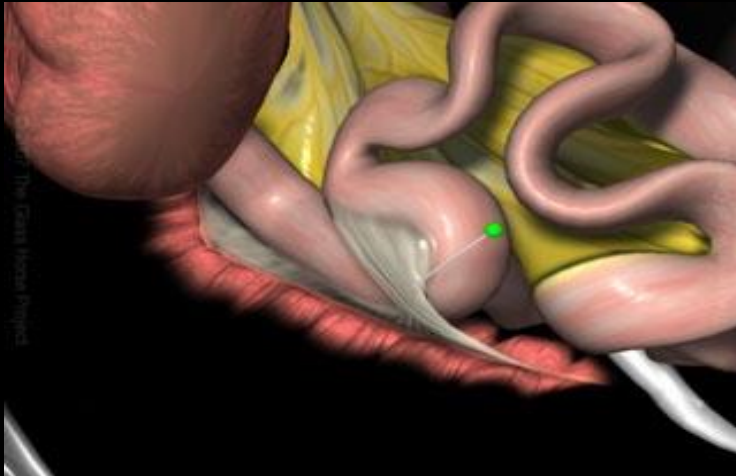


**IDEAL Biology: A National Institutes of Health (NIH) Science  
Education Partnership Award (SEPA)  
PI: J. Steve Oliver, PhD**

Conceptualization -> Proposal -> Funding

THE GLASS HORSE



FUNDED BY:

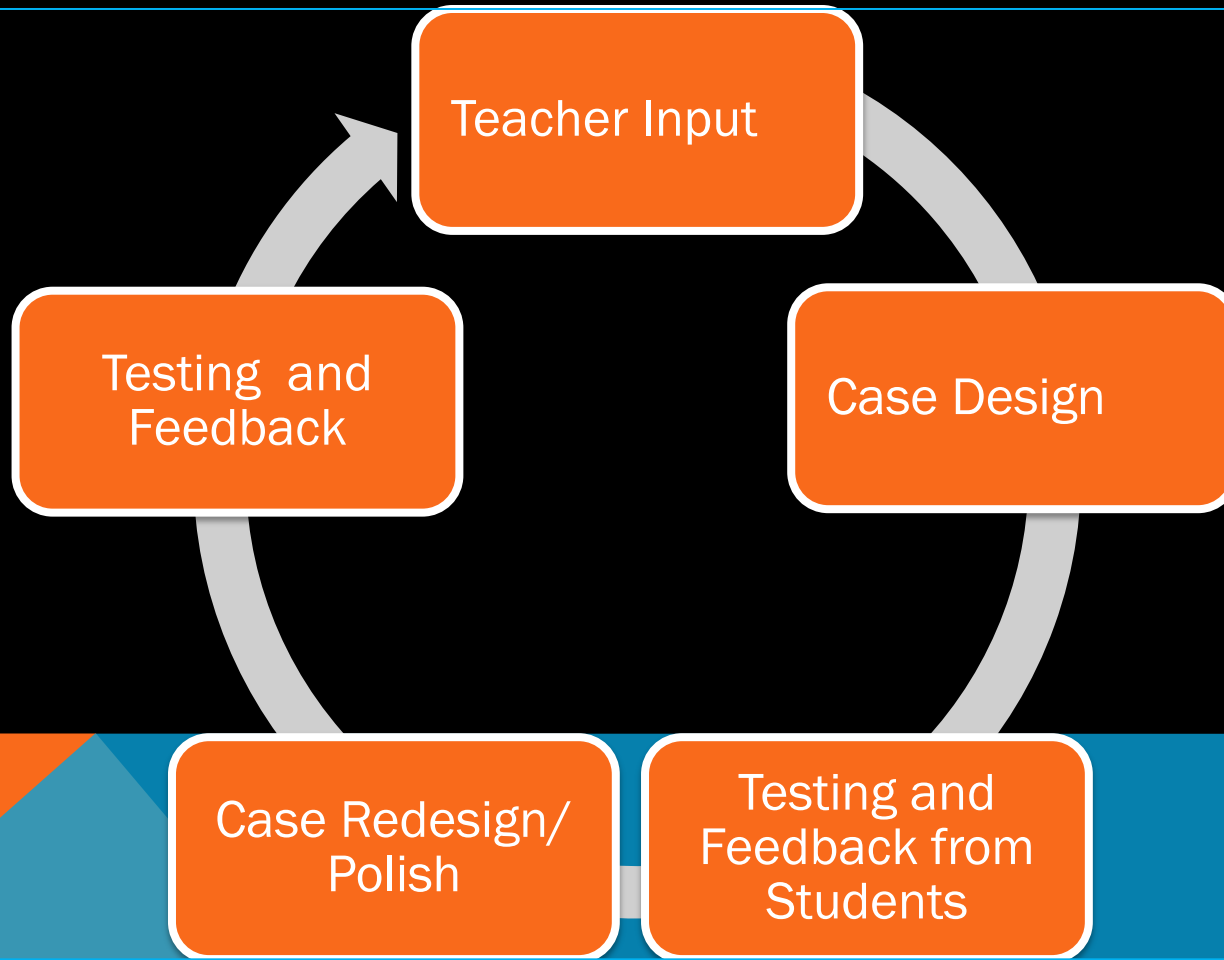
**SEPA**

SCIENCE EDUCATION  
PARTNERSHIP AWARD

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

Collaboration required

# COLLABORATE



# 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”

2012-2013 “Treatment”

< 450 students

6 teachers

Pretest, posttest, 2nd posttest

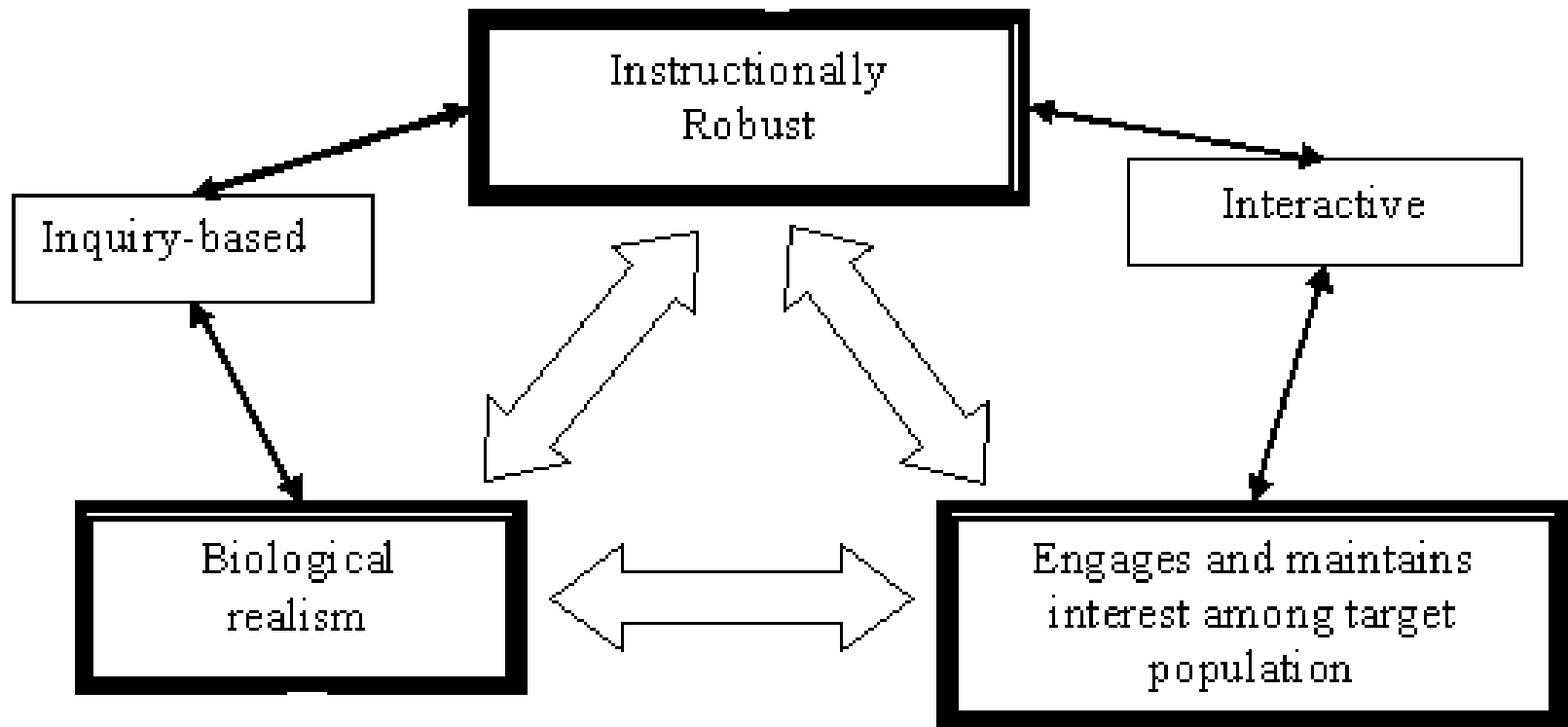
Attitude Instruments

Document Analysis

Participant Observation

Interviews

# INNOVATE



Created by J. Steve Oliver 2009

## 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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