

CASE STUDIES FOR SCIENCE

General Education

Pilot Course Discussion Series

WHY CASE STUDIES?

Improve science literacy

WHY CASE STUDIES?

Teach the process of science

WHY CASE STUDIES?

Link science and society

WHY CASE STUDIES?

Learn the paradigms of science

WHY CASE STUDIES?

Discover the context of science

WHY CASE STUDIES?

Cooperative learning

WHY CASE STUDIES?

Science

Non-science

Nonsense

THE CASE OF DR. NOITALL:
Room for improvement

THE CASE OF DR. NOITALL:
Next time the professor will:

Define learning objectives

THE CASE OF DR. NOITALL:
Next time the professor will:

Manage the classroom

THE CASE OF DR. NOITALL:
Next time the professor will:

Pre-case assignment

THE CASE OF DR. NOITALL:
Next time the professor will:

Help students identify dilemma(s)

ASSESSMENT/ACCOUNTABILITY

WHAT ARE SOME
INSPIRATIONS FOR
CASES?

TYPES OF CASE STUDIES

Dilemma or decision

Appraisal or Issue

Case history

CASES & CLASS ACTIVITIES

♪♪ These are a few of my favorite things ♪♪

CASE STUDIES
Pros and Cons

EFFECTIVE CASES...

Tell a story

Arouse interest

Are contemporary or

Relevant to students

Create empathy for characters

Provoke conflict

Force decisions

Are brief!

**FROM CASE
TO CLASS PROJECT**

Women in STEM
Science Communication
HIV/AIDS Testing
Malaria and DDT

CASE STUDIES FOR SCIENCE

National Center for Case Study Teaching in Science
<http://sciencecases.lib.buffalo.edu/cs/>

Start with a Story. Clyde Freeman Herreid, editor,
National Science Teachers Association Press. 2013

*The Minnesota Case Study Collection: New Historical Inquiry
Case Studies for Nature of Science Education*. Douglas
Allchin, Springer Science and Business Media B.V. 2011—
Historical Case Studies.

<http://www.tc.umn.edu/~allch001/papers/MN-cases.pdf>