

How Learning About Learning in Physics Changed My Future Career

Heidi K. Rowles, Hunter G. Close,
Rachel E. Scherr

AAPT Winter Meeting, Jacksonville, FL
January 10, 2010

ENERGYPROJECT



Supported in part by
NSF grant DRL0822342

The House of Physics Teaching



The intellectual life of a teacher

Communication

**monologue...
is my dialogue**



The intellectual life of a teacher

Communication

- Allow time for student explanation
- Recognize prior knowledge
- Integrate scientific and everyday talk
- Acquire presence of mind
- Assist in transfer of learning



The intellectual life of a teacher

Communication

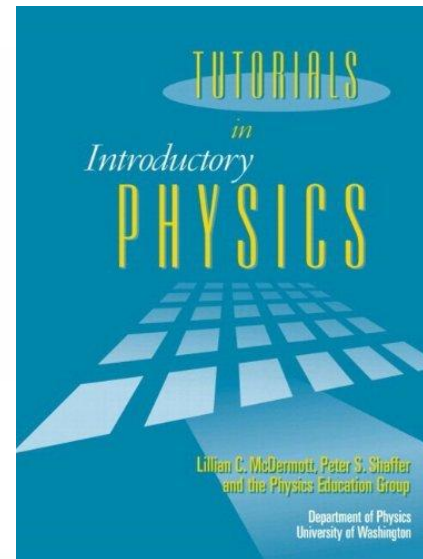
Telling her what
to learn
is not
Letting her
learn



The intellectual life of a teacher

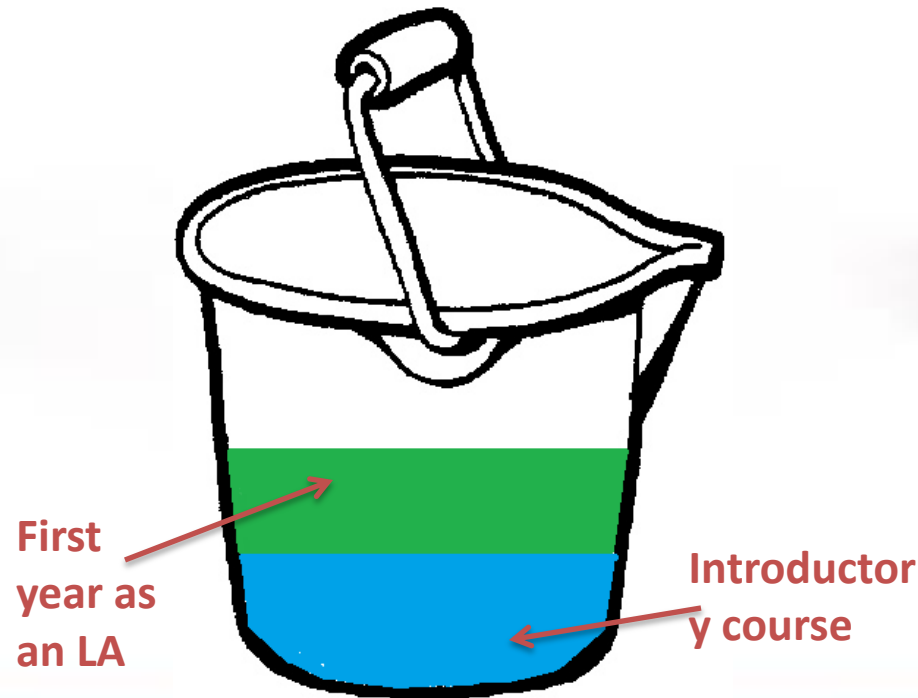
Reliable physics knowledge

LA Prep Session:
review of
introductory
concepts with
tutorials



The intellectual life of a teacher

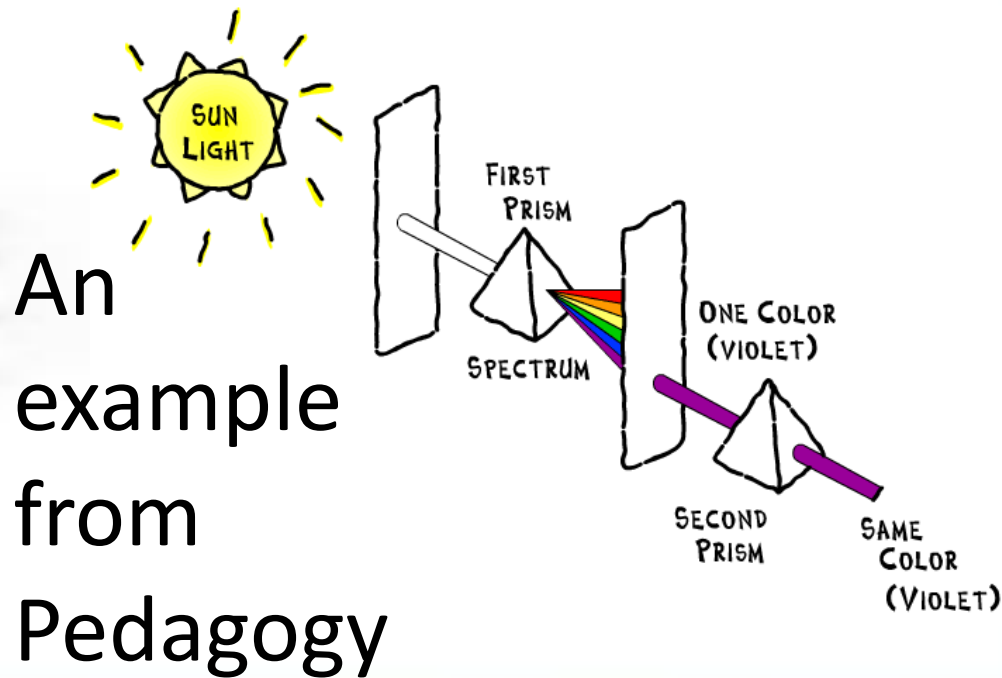
Reliable physics knowledge



7

The intellectual life of a teacher

One Topic, Many Methods



Acknowledgements

This presentation was made possible by Seattle Pacific University's Spiritual and Education Resources for Vocational Exploration (SERVE) program, which funded the grant "National Dissemination of Transformative Experiences of Physics Learning Assistants."

Seattle Pacific University's SERVE program is supported by the Lilly Endowment.