

Productive Engagement in Science Classrooms

Productive engagement in the Scientific and Engineering Habits of Practice centers the classroom around sense-making and raises the level of conceptual understanding for all students by...

- ensuring an equitable culture of risk-taking, innovation, creation, ownership, appropriate challenge, and support
- implementing high cognitive demand tasks that are relevant and promote inquiry
- utilizing both teacher and student generated questions to promote and build genuine curiosity
- eliciting purposeful student discourse to promote analysis, metacognition, and reflection

...in order to develop solutions to complex problems by investigating, evaluating, and explaining important scientific ideas.

