



Advanced Reasoning in Education

Think Global PBL Academy

SCIENCE INQUIRY THROUGH PROJECT BASED LEARNING

Intended audience:

- Science teachers who are already familiar with PBL and are looking to enhance their science project designs with an inquiry focus.

Session goals / strategies:

- Part 1: Selecting project contexts that are both rigorous and relevant
 - Using authentic phenomenon to plan and design authentic, engaging science projects
 - Other strategies
- Part 2: Scaffolding and assessing rigorous science-based inquiry tasks
 - Building in activities that strike a balance among surface, deep & transfer level tasks (McDowell)
 - Plan B planning - planning for students who need more support and for students who are ready for activity extensions (at all levels of task) (McDowell)
 - Using rich science investigations
- Part 3: Simultaneous Scaffolding of Science & 21st century skills
 - Bookend lessons that pair 21st century skills goal setting with science processes
 - Intentional selections of 21st century skills that enhance individual and team science skills acquisitions

The *Science Inquiry Through PBL* training aims to advance the project-based learning (PBL) practices of teachers who have already designed and implemented science PBL projects. The training focuses on practices that enhance science inquiry by anchoring instruction in real world phenomenon, deepening science scaffolding and assessments, and providing structured scientific investigations that improve integration of science with 21st-century skills.



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