Features of an inquiry-based lesson Larry Copes

The ideas being taught arise in the context of an inquiry, rather than as a prerequisite to inquiry.

The inquiry is into a rich problem: one with multiple interpretations, multiple solutions, multiple approaches to a solution, multiple extensions, or multiple intuitive conjectures.

The teacher

- provides the topic and problem.
- plays the role of an experienced co-learner rather than that of a factual authority.
- sculpts the class session in response to the responses of the students, rather than following a completely pre-planned script.
- might follow the SPOSA model:

Set the context

Pose the problem

Observe quietly while students work and report

Summarize major concepts and lead posing of extension problems

Assess, at least informally

Students, ideally,

- make meaning for themselves rather than being told what meaning to make.
- are motivated by intellectual interest in the problem rather than by grades or threats.
- engage in higher-order cognitive skills even while encountering new facts and practicing lower-order skills.
- learn the effectiveness or lack thereof, of procedures by trying them rather than by being told, although the teacher will guide thinking to avoid too much "reinventing the wheel."
- decide on procedures, results, and conclusions.
- engage in an open critique of all ideas they encounter.
- are involved in the 5-E *learning cycle*:

Engage

Explore

Explain

Extend

all while evaluating