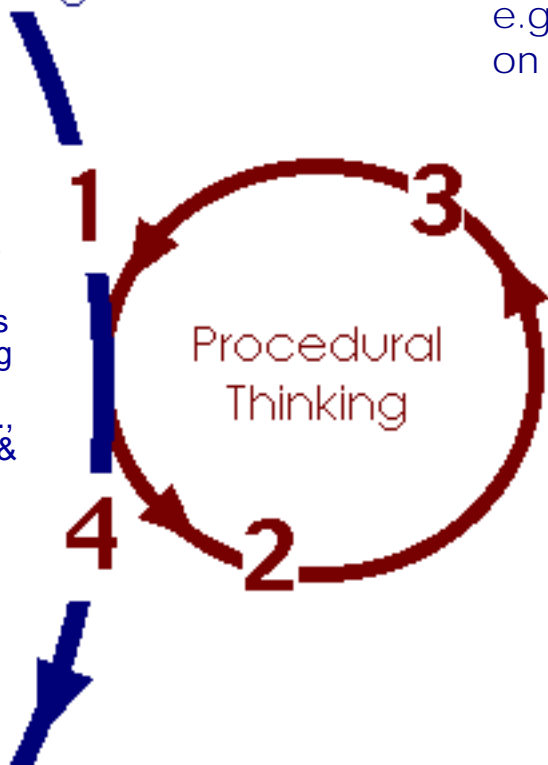


A Procedural Apprenticeship

Helping students to develop 'skills of inquiry, design & communication'

Conceptual
Thinking

This larger
circle
represents
an ongoing
unit of
study; e.g.,
Solutions &
Mixtures.



Conceptual
Thinking

1. Students Demonstrate Their Current Skills

e.g., Ask students to design & conduct an experiment on a unit topic, but with no teacher assistance.

2. Teacher Demonstrates New Skills

e.g., Using a visual demonstration, point out test design features; e.g., control of variables.

NOTE: Phases #2 and #3 should involve simple phenomena different from those of the unit of study.

3. Students Practise New Skills

e.g., Provide activities that allow students to practise use of points just taught; e.g., control of variables.

4. Students Apply Skills in Authentic Problem Solving

e.g., Encourage students to design & conduct their own tests, allowing them to use methods they deem appropriate.

NOTE: Phases #2 and #3 represent the 'apprenticeship'