Professional Development to Improve Spatial Thinking of Earth Science Teachers and Students

Agenda—November 19, 2011

How did you use spatial thinking in your class this month?
* Teachers' reflections

Finish representational correspondence when view direction and data type are the same:
* Teachers' reflections
* Multiple working hypotheses as characteristic thought pattern of geoscientists

Representational correspondence when view direction is the same and data types are different
* Examining Regents examples and rating them by difficulty

Representational correspondence when view direction is different
* Doodles
* Introduction to perspective taking: stuff looks different side and top
* Drawing from side and top
* Advantages of drawing (see recent Science paper)
* Consider Regents examples, rate by difficulty

Where these skills can take students in their future ES education
* visual penetrative ability