PER GROUP MEETING

Wednesday, September 13
2006

Teaching Interview of Groups
Bijaya Aryal

- Interview protocol development
  - Learning student difficulties from last stage
  - Group of 2-3 students participate at a time
  - Presentation of the purpose of the activities
  - Scaffolding by statements of activity sheet
  - Minimal oral intervention

- Purpose
  - Test the activities to bigger groups
  - Vygotskian zone of proximal development by peer interaction

What I did this last week
(different from what I wish I did last week, which is nothing!)

- Met with Charles & discussed (1)
  Where our research questions converge & where they diverge (2)
  Discussed various instruments & reviewed the ones that he will be using.
- Started working on the brochure for the UG science reform class project.

Jackie: Everyday Electrical Devices

- Analyze interviews looking at very small grains of knowledge
  - Look at how models are built
  - Vertical and horizontal transfer

Dyan – Optics of Human Eye

- Need to do more interviews!
  - Approximately 5 if possible
  - Upper-level undergrads
  - Hopefully know something about eye

- Email sent – awaiting volunteers and money.

C. Mamolo

- Agreed with Arifa to review independently “views on the nature of science” articles
- Searched for more literature (primary and secondary)
- Articles are either qualitative or mixed methods.
- Science Identity articles are qualitative. Domains are Competence, Performance and Recognition. No instrument available.

Next Step
- Analyzed Validity of articles (as reported)
  - Content (item and sampling)
  - Criterion (concurrent and predictive)
  - Construct
  - Consequential

- Data set: 5 GP1; 9 GP2; 1 PW; 5 Physics majors
Fran Week 3

Talked to Sanjay since our last meeting:
Reviewed half my papers
But Sanjay gave me more.

Ran through a transcript looking for evidence of framing, epistemological modes students' operating in, use of cognitive resources, and evidence of transfer of learning

That's Physics!!

ANNOUNCEMENTS

Arkansas-Oklahoma-Kansas (A-O-K) Meeting
- Fri-Sat, Oct 27-28, Emporia State Univ.
- Depart ~ 3P.M. on Oct. 27. (Brian will lead)
- Return late evening on Oct. 28.
- Abstract due ~ 2 weeks prior, ~ Oct. 13

Fall Colloquium
- Dr. D. J. Wagner, Grove City College / RPI
- Monday, November 20.

Mojgan Pathway Online Resources
Finding research based Materials to put research into action,
Concept area: Mechanics
Phase 1: Matched 250 articles to 50 Questions
Phase 2a: Matched research based materials such as; Demonstrations; Student activities (labs, group work, etc.)
Phase 2b: assessment
450 entities matched to 600 questions, some finishing ends
Writing Report (Revising, 2 chapters)
4 chapters done, Formatting, Preparing for Electronic submission
Reviewed Pathway's theoretical framework and integration all the pieces
Plans: Final corrections, add one brief chapter about problems, final revision of Endnote file.