ED 6634. Teaching and Learninig to Solve Mathematical Problems. Summer 2007

Group Presentations Schedule

You are asked to prepare a handout (2 typed pages) including key ideas and guiding questions for each class member.

Each group will be given up to 80 minutes for the presentation of the topic.

Please talk to me before your presentation.

Date	**topic**	**students**	Room
July 19	Rich Learning Tasks	Lisa T. and Patricia	E2030B
July 19	Indictment of Rote Learning	Judy and Paula	E2030B
July 24	Structuring Learning Tasks for Growth	Luke and Kirk	E2030B
July 24	The Relevance of Learning Tasks	Lisa S. and Sheena	E2030B
July 26	Assesing Student Performance	Denise and Cindy	E2030B
July 26	Assesing the Richness of a Learning Task	Casey and Kerry Linn	E2030B
July 31	The Essential Conditions for learning	Chris, Linda and Laura	E5004
July 31	Rich Tasks and Pseudo-Rich Tasks	Kim and Renee	E5004
Aug 2	A Sense Making Cycle	*Avalable*	

Questions identified by the students as being essential.

.

1. **Laura**: (St. Peter's Junior High, Mt.Pearl)

What are some effective strategies that we can use as teachers to help students develop more effective problem solving skills and to lessen anxiety? (The curriculum at the junior high level is quite full and therefore we often don't have a lot of time to devote to problem solving skills specifically.)

2. **Kirk**: (College of North Atlantic).

How does a teacher teach appreciation for the aesthetics of mathematics? [...] How does a teacher help the learner go through the change process so that mathematics is an enjoyable activity in which to engage rather that a dull collection of facts? Does success in math and problem solving begin with a healthy/positive attitude to the subject?

3. **Sheena**: (Phoenix Academy, Carmanville)

How can I create an interest in math (in general) and more specifically in problem solving? What can I do as a math teacher to better equip my students to become better problem solvers?

4. **Kim**: (Holy Trinity Elementary).

How to develop problem solving in a classroom so that it develops critical thinking skills?

5. **Paula**: (Menihck High)

How we can help students in senior high develop problem solving strategies if they have never been exposed to it?

How we can help students transfer problem solving strategies across discipline?

6. **Patricia**: (St.Teresa's School-Ecole Ste. Therese)

Students have a great difficulty solving non-routine problems. How can I better help them become better, more confident, problem solvers?

7. **Renee**: (St.Bernard's Elementary, grade 4/5)

In todays *problem solving approach* in mathematics, what is the best approach to teach problem solving?

8. **Luke**: (Eastern School District, substitute teacher)

Does recent literature on pedagogy reflect how we teach today?

9. **Casey**: (Burin Regional office)

What are some non-routine primary/elementary problem solving activities we can use in our classes?

10. **Judy**: (Stephenville High)

How can I help struggling students to do well with abstract concepts?

11. **Denise**: (Amalgamated Academy, Bay Roberts)

How do we balance *traditional* and *non-traditional* mathematics?

How do we achieve a balance between skills and problem solving?

12. **Cindy**: (Ascension Collegiate, Bay Roberts)

How to help students with learning disabilities in solving word problems?

13. **Kerri Lynn**: (Morris Academy)

How do we engage **all** students in the problem solving process so that they all experience a sense of success? (Some students lack confidence and/or pre-requisite skills needed.)

14. **Linda**: (Holy Name of Mary Academy, Lawn)

What are some effective problem solving strategies to improve problem solving skills and promote critical thinking?

15. **Lisa S.**: (Riverwood Academy)

What are the best strategies to help pathway 3 students and those with learning difficulties keep actively engaged in problem solving?

16. **Lisa T.**: (St. Francis of Assisi School, Outer Cove)

Does the teaching of problem solving become more effective by taking a structured or unstructured approach?

17. **Chris**: (Fatima Academy, St.Bride's)

What are some effective problem solving skills that are effective in developing critical thinking?