

Problem based learning: A survival guide for fresh exchange students

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Maastricht University

- The youngest university in the Netherlands
- Triple accreditation
- International student population
- Unique educational approach: Problem based learning







PBL: In short

What?

Small-Group Work
Cases, Assignments, workshops, Presentations, Papers, Reviews
Leadership, Critical Thinking, Independent Learning

Why?

How?



Why do we use problems?















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Why don't we tell you? (like traditional education)

Studies have shown that when students are tested about their knowledge of basic economic principles six months after completing an introductory economics course, they score no better, on average, than those who never took the course.

(New York Times, August 12, 2007)









Why do we discuss them in groups?









- <u>Common criticisms on MBA graduates:</u>
 - 1. Too analytical, not practical and action oriented
 - 2. Lacking interpersonal and communication skips
 - 3. Parochial, not global in their thinking
 - 4. Want to move into presidential positions quickly
 - 5. Not working well in groups
- <u>Alumni studies</u>
 - 1. Largest Gaps: Communication, decisionmaking & risk taking
 - 2. Smallest Gaps: Analytical skills











Memorizing is NOT learning



The procedure is actually quite simple. First you arrange things into differen **EQUIS** groups. Of course, one pile may be sufficient depending on how much there is to do. If you have to go somewhere else, due to lack of facilities that is the next step, otherwise you are pretty well set. It is important not to overdo things. That is, it is better to do a few things at once than too many.



Memorizing is NOT learning



- Probably poorly understood
- Likely that most people read the passage slowly
- Focus for a long time on certain text parts
- •This process is generally regarded as seeking for existing knowledge networks in your memory that could interact with information in the text to <u>construct meaning</u> and to make sense of what you are reading.



In sum: We care for knowledge and skills

- Knowledge and Analytical Skills

• Problems, Cases, Presentations, Real Stuff, ...





- Communication Skills

• Teamwork, project management, management games, ...



What and How?





- For more than fifty years the Lee Company of Merriam, Kansas, did a good steady business. In the 1960's and 1970's, Lee Riders were riding high as jeans became fashionable among women as well as men. Lee couldn't make jeans fast enough. Recently, however, ten plants were closed down. Furthermore, Lee's international sales decreased despite enormous demand in foreign countries. Nowadays, Chief Executive Officer Fred Rowan is struggling to reorient Lee to suit the changes in the external environment.
- In order to make a sound reorientation, what is the first thing Fred should do?



SOLUTION

-AT and



Labor, Welfare & Health

Brand & Image







Pollution & Environment



Tool: Seven-Jump

- Step 1: Read: clarify terms and concepts
- Step 2: Problem definition
- Step 3: Brainstorm
- Step 4: Systematic inventory
- Step 5: Formulate learning goals
- Step 6: Self-study: solve learning goals
- Step 7: Report and synthesize











Roles in a tutorial group

Alternating roles between the group members

- Group member
- Discussion leader
- Secretary











Your tutor...



- "He let the students in the tutorial have free rein ..., but always held us accountable to a critical thought process."
- Creates a pleasant learning environment
 - "Responded to very diverse points of view, styles, and preparation equally enthusiastically. No one felt left out."
- **Contributes** knowledge and experience
 - " ... obviously working hard at keeping up."
- Questions everything
 - "Are you certain of what you are saying?"
 - "Is there something more you need to know at this point?"

School of Business and Economics



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If your group is not functioning:

Take your responsibility and make it work!

Contact your tutor!







PBL students are...

- More highly motivated
- Better at problem-solving and self-directed learning
- Better able to *integrate* basic science into the solutions of professional problems
- Better at collaboration
- Are more *satisfied* with their curriculum
- Initial learning is not as good as in a conventional curriculum but long-term retention is superior
- Are initially *frustrated*, feel *not confident*

Pitfalls

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- Learning is a source of frustration
 - It is normal to be unsure about what is needed to learn
 - Workload is a good indicator for learning quality
 - 2 hours small group work require 8 hours individual learning as preparation for next session
- Information exchange is more than telling stories
 - -Try give input without reading textbooks
 - -Try to draw a diagram on the whiteboard
 - Never take anything for granted
 - Ask for clarification, don't trust the wise guys!











- Plagiarism
 - We use software to scan every document
 - Cooperation or exchange of information can be EQUIS considered as fraud
- Course Attendance

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- We monitor attendance
 - Assess group contributions
 - Sanctions for not meeting rules
- Written Examinations
 - Check what is permitted and NOT permitted
- Rules are Rules
 - Even in the Netherlands!!







Your Survival Kit

- Be Smart
 - Do not play the macho male,
 because females ...
- Be Alert
 - Exams can cause surprise .
- Be There, On Time

 "Sorry is too late"
- Be Happy, Enjoy













Enjoy your stay at Maastricht University!

