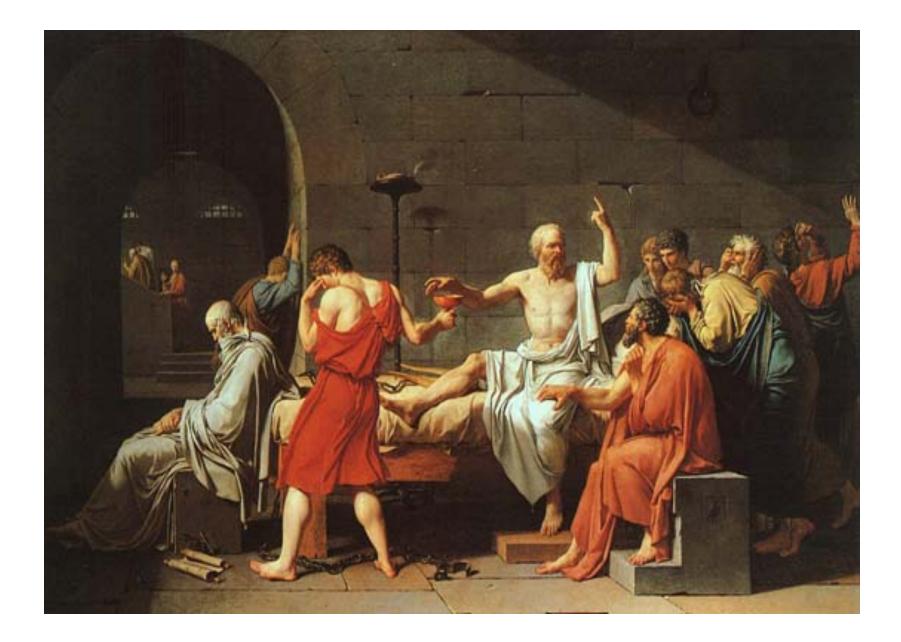
Becoming a Problem-Based Learning student

Professor Samy A. Azer MD, PhD (USyd), MEd (UNSW), FACG, MPH (UNSW) Professor of Medical Education Chair of Curriculum Development Unit, College of Medicine, KING SAUD UNIVERSITY, Saudi Arabia Formerly Professor of Medical Education at Universiti Teknologi MARA, Malaysia, University of Melbourne, and University of Sydney, Australia "The teacher is a midwife to students pregnant with ideas"

- Socrates (469-399 BC)

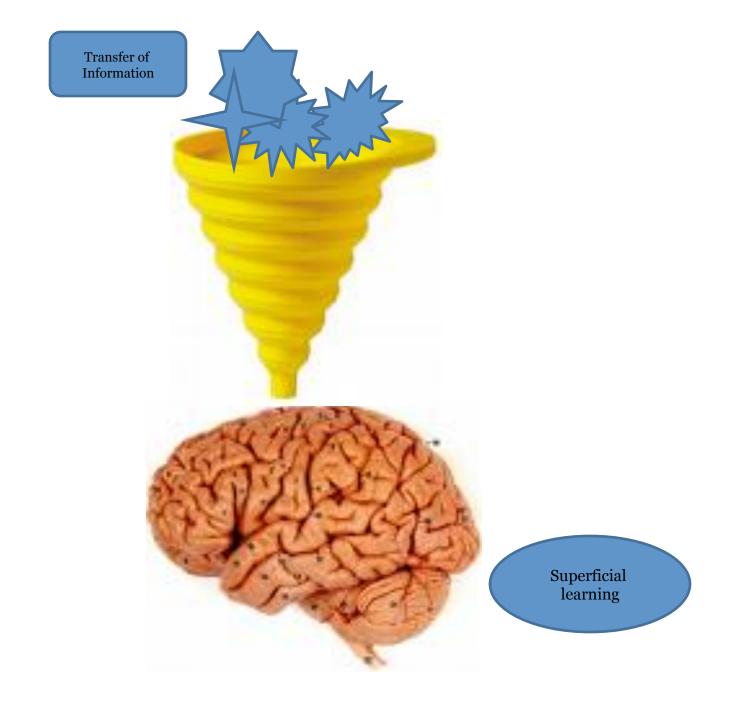


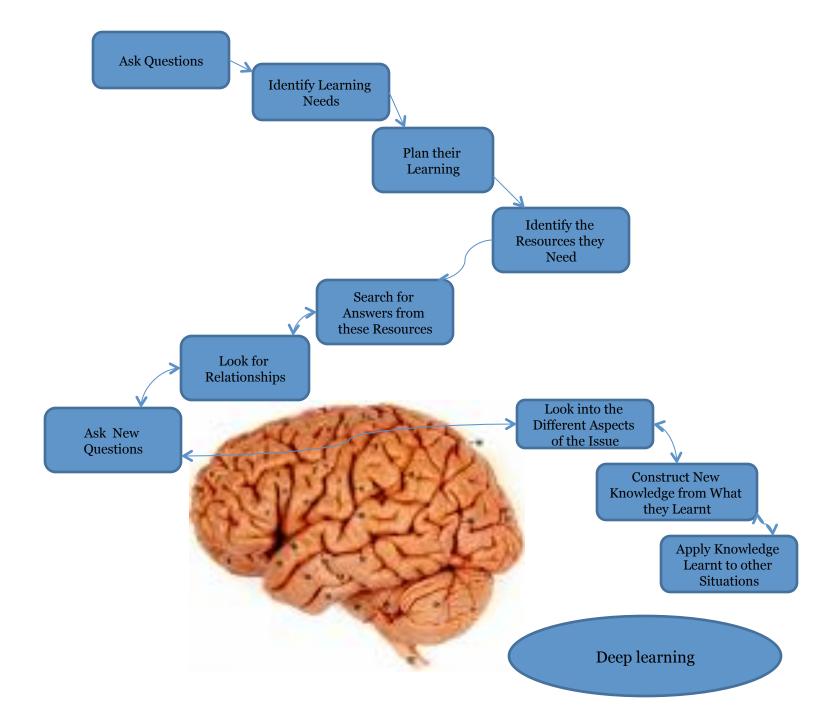




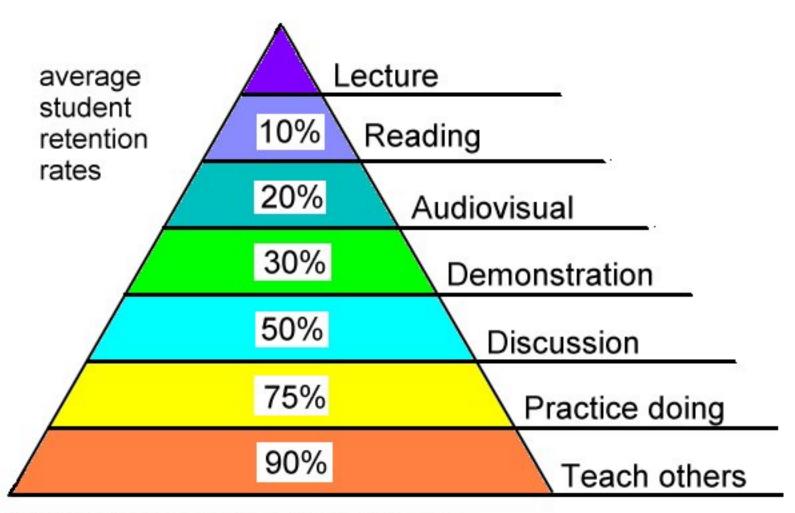
Long Class



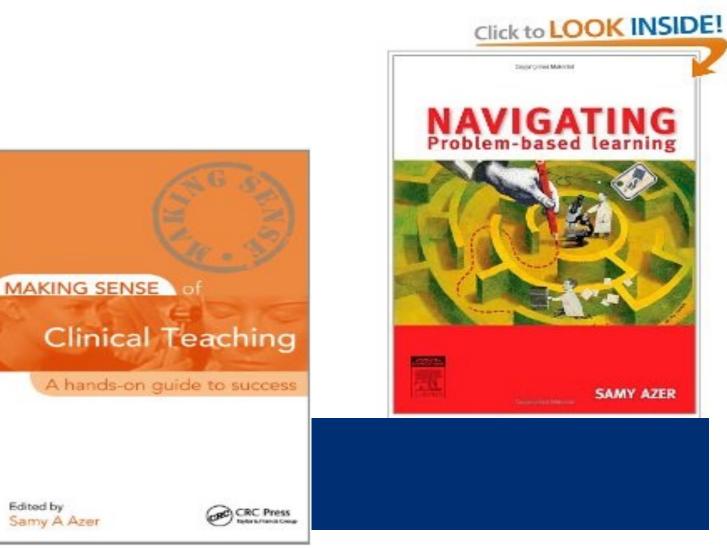




Learning Pyramid



Source: National Training Laboratories, Bethel, Maine



Edited by Samy A Azer

Educational Objectives of PBL: Integration



Integration of basic and clinical sciences.

Integration of related ethical and biopsychosocial issues.

Making links, understanding relationships, understanding concepts such as structural-functional relationships, pathogenesis and mechanisms.

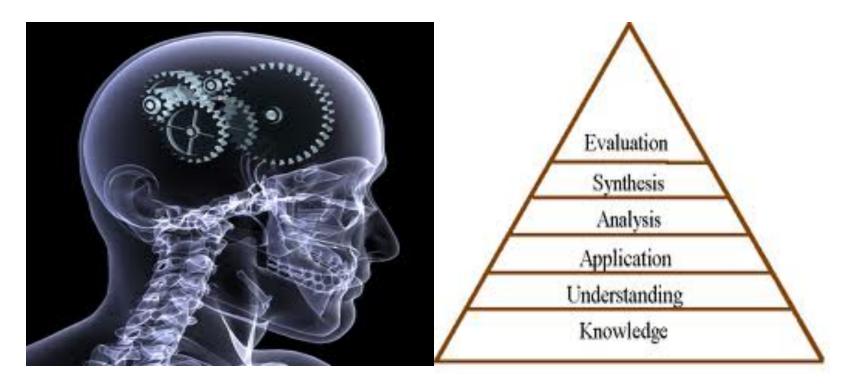
Educational Objectives of PBL: <u>Self-directed learning</u>



Focusing on how to learn and what to learn.

Enhancing Student's skills in identifying their learning needs, search different resources, construct their knowledge, link what they have learnt to the case, become self-regulated learners.

Educational Objectives of PBL: Cognitive skills



Identify problems. Generate hypotheses. Make an enquiry plan. Refine their hypotheses on the bases of evidence from history and examination. Interpret findings and investigation results. Make decisions. Construct a management plan.

Educational Objectives of PBL: <u>Small group learning</u>



Sharing ideas. Exchanging knowledge. Communicating effectively. Enhancing their listening skills. Working as a team. Building each other. Practicing peer-teaching. Learning how to focus on self and other members in the team.

Why do we need PBL?

• The need for professionals and graduates to address the changes in our communities. For example, adopting customer-centered care.

• Information explosion in all areas/disciplines and the recent developments of information technology.

Why do we need PBL?

• A need for all professionals to be competent not just in knowledge and related theories but also in a number of cognitive and non-cognitive skills- such as interpersonal and communication skills, empathy and professionalism.

- Changing organization structure and the need for multiprofessional education.
- Regardless to your profession, all of us on a daily basis face problems and we need to work out solutions.

Trigger

(40 Minutes)

"Reda Gamal, an 18-year-old first- year Agriculture student at a university in Riyadh, decides to participate in a state race organised by the university students' union. It is only the second week in his course and he feels stressed. Also he is a little worried being away from his family in Medina. It is midmorning, very hot and Reda is sweating a lot during the race. About 50 minutes into the race, he suddenly collapses.

"

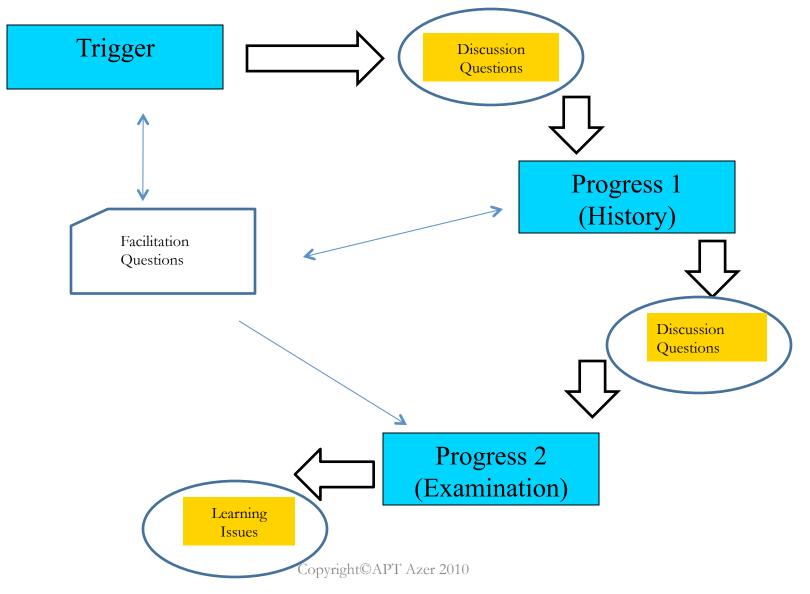
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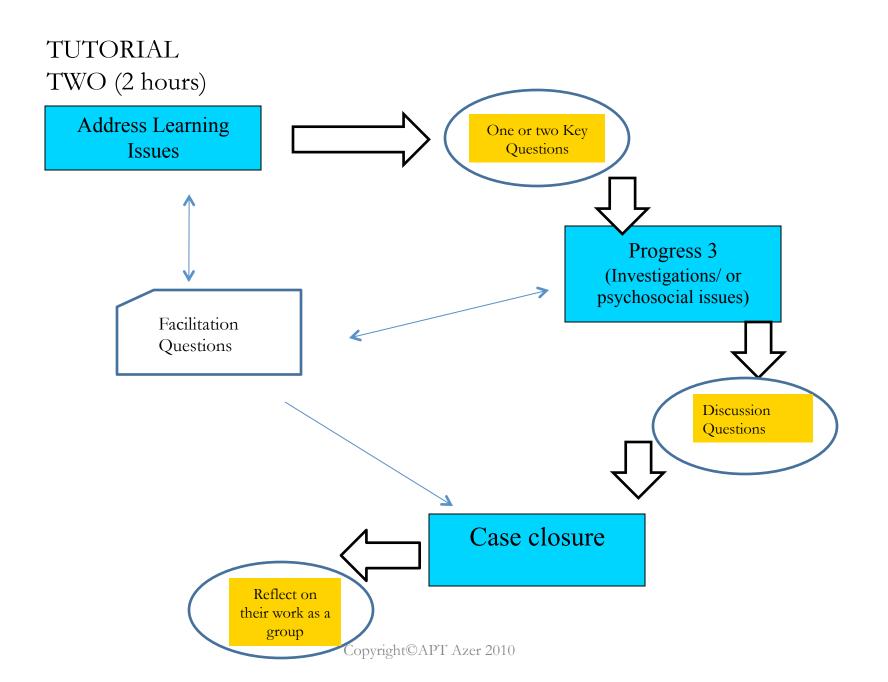
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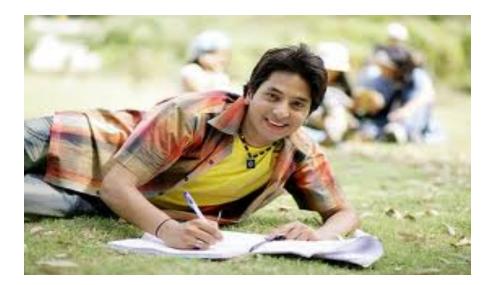
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TUTORIAL ONE (2 Hours)





What are the roles of students in PBL?



• Students learn how to apply knowledge to real-life situations, while in a traditional course they learn how to focus on factual knowledge.

• Students become producer of information (construct information), while in a traditional course they consume knowledge.

What are the roles of students in PBL?



• Students actively analyse information, while in a traditional course they accept knowledge as it is.

Discussion Questions

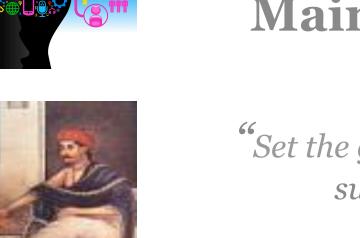
Nobel Laureates

Do you know a Nobel prize winner whose work has helped in understanding physiological principles related to this case. Discuss how his/her work helped in advancement of our knowledge in this area.

Students may spend 10 minutes discussing this issue. Those interested could submit a written submission to my on my email <u>sazer@ksu.edu.sa</u>

Keys for Successful Discussion in Problem-Based Learning Tutorials





Key 1 Maintain ground rules

"Set the ground rules and make sure it feels right." Gary Ambrose





Key 2 **Know your roles**

Groups function better when every member is aware of the different roles a group member should undertake.







"Doing things the same way you always have and expecting the results to be different is insanity."

- Albert Einstein







"Asking a good question requires students to think harder than giving a good answer"

- Robert Fisher







Without feedback there would be no champions

"Champions know that success is inevitable; that there is no such thing as failure, only feedback. They know that the best way for forecast the future is to create it."

Gelb

- Michael J.





Know the roles of your tutor

"Curiosity is one of the permanent and certain characteristics of a vigorous mind."

Samuel Johnson

