

The model for construction of PBL activities includes the following dimensions:

- a) Environment
- b) Curriculum c) Framework

d) Use of technologye) Development of formative objectives

Banking Street

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Instructions and

Action elements

Way to work

Evaluation



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Knowledge

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activities

3) Problem

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Integrating:

Objeto M-23041

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Dimensions

Levels Levels

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Levels

Levels

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STAGE III: Problem

STAGE

the

acquirement

information.

necessary

conformed.

Each expert team

presentation and is according to the

specified in the outline.

expert teams

I:

Teacher: does not give the

information, but gives orientation and feedback to each team.

Student: each team may access

• Defined as an activity to

Each team is divided to form

Expert teams based in the

ability of each student are

conformed

develop competencies.

elements of different teams.

Stages of PBL activity

Conclusions

II: STAGE Collaborative Learning Teacher: keeps the information and gives advice about the performance

and amount of participation of each expert.

Student: Can't interact with other teams. Allows that each expert talks in each section of the activity.

• An applied activity is defined. It must allow the interaction and interchange of experiences from each student with his/her partners.

Base team joins to solve an intermediate activity where each expert contributes to team with individual knowledge.

Field evaluation (in what refers to efficiency and teamwork).

Teacher: keeps the information. Watches the time and gives advice of the objective to the team. Student: Can't interact with other teams and allows to each member participates equally.

- Problem that involves application of previous stages.
- Other contents within the analysis frame could be integrated.

The base team is oriented as a team to solve one more complex problem.

Evaluation is centered in a report in site that team prepares.

The importance to create a consistent net of problems with the above dimensions allows developing sensitiveness and trust of student with respect the goal of each activity and the entire program. In addition, a net of problems under these considerations establish a frame of analysis and allows evaluate the recurrence to previous and future subjects. In this way the whole net is more important than the problem because it allows giving constant sense to PBL activity within the course.

Particularly using PBL activities within mathematics, physics and engineering courses, which include the use of computers as a tool, have not constituted a distortion to education al least in the students currently in the program. The evaluation of the students has been inside the global evaluation. The consistency of it with the results obtained is high.





Levels