

Laurillard's diagram of 12 activities for teaching and learning.

It is redrawn with the numbers modified from fig.II.1, p.103, in Laurillard, D. (1993) **Rethinking university teaching:** A framework for the effective use of educational technology (Routledge: London).

APEC handout 2a

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Laurillard's 12 mathemagenic activities

Conceptual description

- 1. Teacher describes the conception.
- Student re-expresses the conception.
 Teacher redescribes the conception in the light of the student's expression or action.
- Student redescribes the conception in the light 4. of the teacher's redescription.

Personal experience / action

- 5. Teacher sets task goal.
- 6. Student acts to achieve the task goal.
- 7. Teacher's world gives feedback on the action.
- 8. Student modifies actions in the light of feedback.

<u>Reflection</u>: (linking description and experience)

- 9. Student reflects on action to modify description.
- 10. Student adapts action in light of concept.
- 11. Teacher adapts task goal in light of student's description.
- 12. Teacher reflects on action to modify description.