



Pilot Project 2009/2010

EMBEDDING AN OUTCOME-BASED APPROACH INTO COURSES



Outline

- This Project
- Embedding OBE in your course – overview & initial implementation
- Further Support

The Project

Sharing Ideas & Good Practices:

- Configuring the link with program ILOs
- Setting up ILOs in course outlines
- Explaining things to students
- Adjusting learning activities and assessments
- Evaluating the impact of changes

A wide range of courses

- From all Schools
- Different levels, with different relations to programs
- 54 courses in spring 2009, 60 courses in fall 2009 and a similar number in spring 2010

Today - Embedding OBE in Your Course

- By the end of today's session, you should be able to:
 - Describe the learner and teacher gains of implementing OBE at the course level
 - Describe the broad stages for embedding OBE in your course
 - Construct and evaluate draft intended learning outcomes for your course
 - Demonstrate the contribution of your course to the Program Intended Learning Outcomes (PILOs)

How OBE (constructive alignment) at the course level helps?

■ The Student

- Clarify personal goals
- Measure **success**
- Reduce anxiety
- Improve studying effectiveness

Improve Learning!

■ The Professor

- Design relevant classroom material
- Design **relevant** assignments
- Design tests/projects

Improve Teaching!

Effective Learning Outcomes

- Express them in terms of observable and measurable behavior
 - Facilitates assessment of learning
- Outcomes should answer these questions:
 - What must students **do** to show that they have learned.
 - What should students be able to **do** as a consequence of their learning.

Good learning outcomes address...

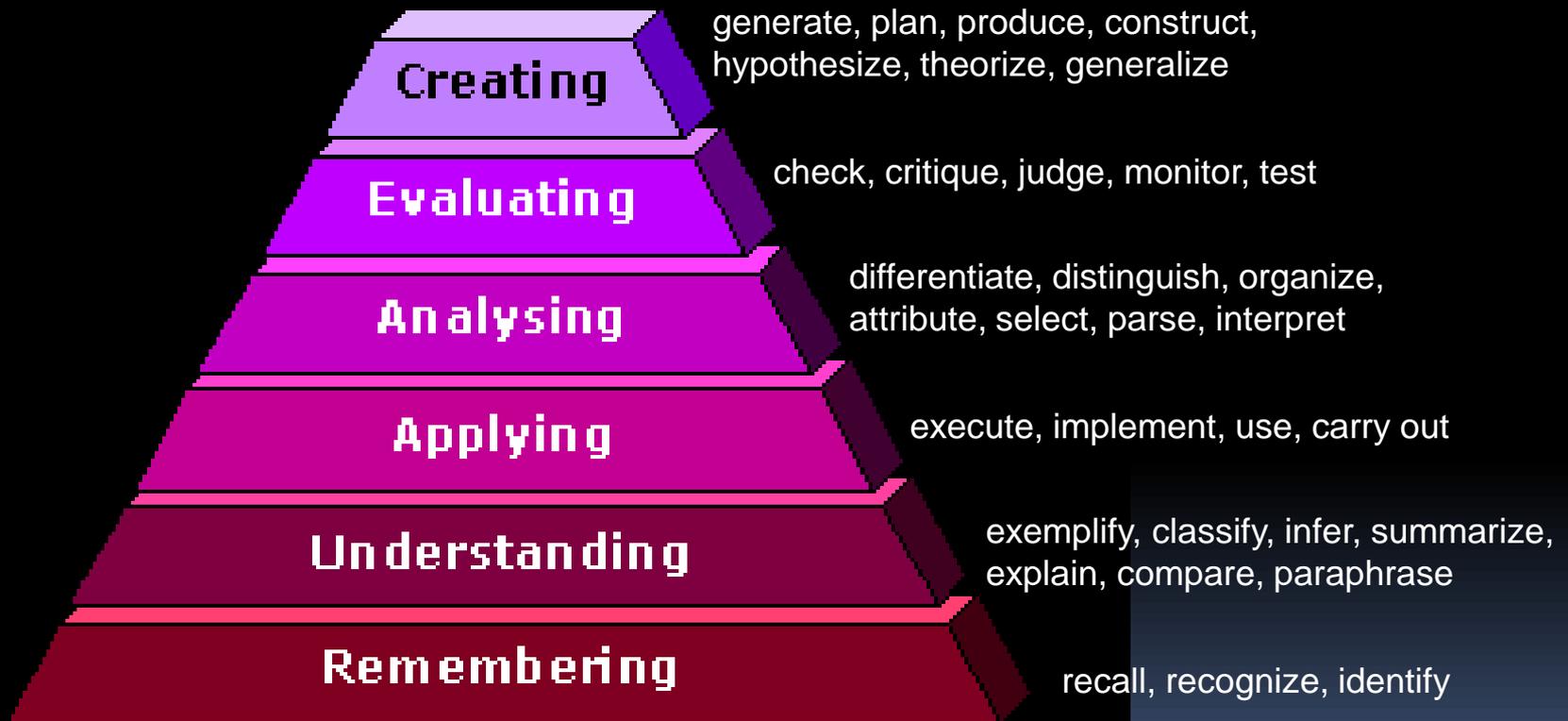
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Basic Elements

1. What the student is expected to do after learning. (performance)
2. The circumstances under which the student will be able to perform. (condition)
3. The level of acceptable performance. (standard)

Indicating Level in Learning Outcomes

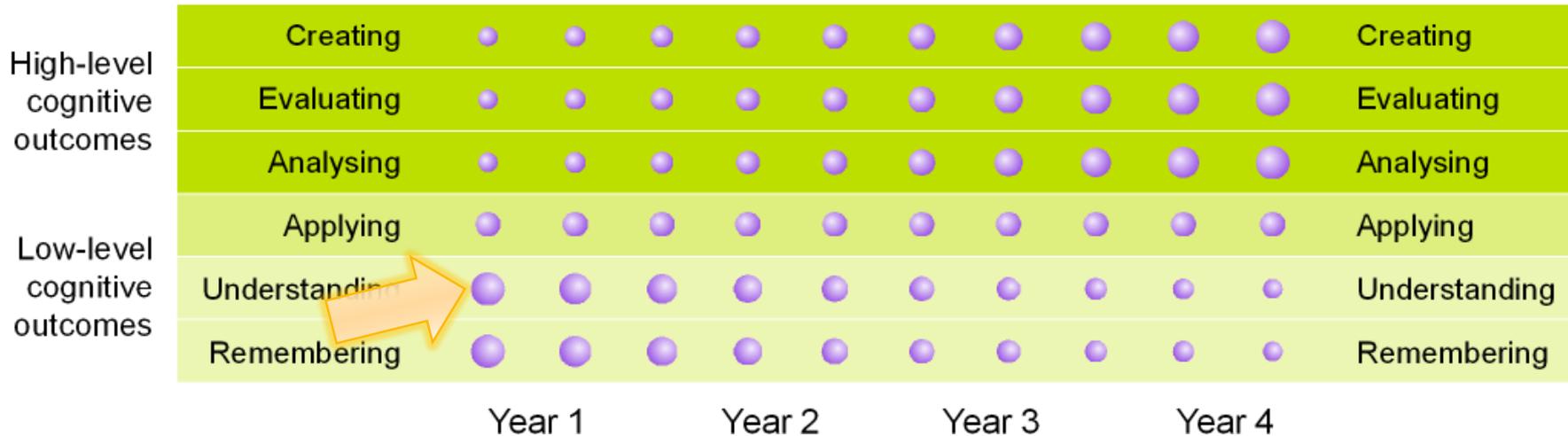
CELT OBE Syllabus Builder



*Anderson, L.W., & Krathwohl, D.R. (2001). *A taxonomy for learning, teaching, and assessing: A revision of Bloom's taxonomy of educational objectives*. Longman: New York, NY.

Developmental Progression

Embedding progressive achievement of intended learning outcomes over four years



Hands on: With your course syllabus (I)

- Today - Review & Tune Course Syllabus
 - Review Program ILOs, mapping
 - Review your Course objectives and from these refine or create as intended learning outcomes (ILOs)
 1. Are they phrased as learning outcomes / objectives (i.e. what the student will be able to do by the end of your course)?
 2. Share your thoughts with the group – similar/different, key points to note
- Now to **end Apr**
 - Review the assessment tasks you have students engaged in for alignment with ILOs and teaching and learning activities
 - Review the teaching and learning activities for alignment with the course ILOs

SSCI OBE Pioneers – Spring 2010

Course Learning Outcomes

BISC 314 Course Outcomes

On successful completion of this course, students will be able to:

- Understand and explain basic concepts in cancer biology;
- Acquire and evaluate information from biomedical literature;
- Organize biomedical information and communicate it with an audience and readership;
- Collaborate and lead in teamwork.

PHYS 121 Course Outcomes

After completing this course the students should be able to:

- Perform simple calculations by applying the basic concepts of electromagnetism and thermodynamics;
- **Classify** the nature of electric and magnetic fields, which occur in numerous applications in industry and technology, as well as and in every day's life;
- **Describe and apply** the energy conservation law;
- Conduct simple experiments in a teamwork environment, analyse and compare data with literature data, and present experimental results in form of a simple scientific report

Hands on: With your course syllabus (II)

- Are they at the right cognitive level for the stage in the curriculum (100 level, 200 level, etc)?
- Are they realistic for the in-class and out-of-class learning time anticipated?
- Tune as appropriate (for today choose at least one course goal/objective)
- Share and review with past and current OBE pioneer colleagues

Course Syllabus Tuning:

Next Steps

- Finish ILOs for your course keeping in mind the appropriateness of the learning levels to students' expected level for year
 - [CELT OBE Syllabus Builder](#)
- Review learning activities and assessment for alignment and revise as needed
- Seek feedback from last semester's OBE pioneers, OBE team
- Finalize course syllabus

Project Timelines

- Spring 2010
 - Lunch teaching workshop on 15 Jan 2010
 - 1:1 Facilitation from OBE team before 1 Feb 2010
 - A Sharing session about challenges and successes (during the semester – see good practices and share experience)
 - Get Mid-course and End-course feedback from students (CELT)
 - Get End-course feedback from teachers
 - Evaluation of instructor response at the end of the semester

Student Feedback (OBE Pilot – Fall 09)

- About ILOs:
 - Favored the stating of ILOs as this helped them get the focus and expectation of the courses
 - Course contents in general matched the ILOs, and most ILOs were addressed and achieved throughout the courses
 - Better not to have too many ILOs
 - Consider contents of ILOs and the level of difficulty based on the students' needs
 - Some practical skills in the ILOs, such as communication and critical thinking skills, were important

- About Teaching and Learning:
 - Arrange different kinds of activities to extend students' exposure to the outside world
 - Focus on the ILOs when designing teaching and learning activities and regard students' achievement of ILOs as ultimate goal of the course

- About Assessment:
 - Assessments basically addressed all the ILOs
 - There should not be a big gap between the assignments and examinations in terms of the level of difficulty and the subject areas covered

Support

- School

- OBE pioneer colleagues from the previous semester
- School Intended Learning Outcomes
- Program Intended Learning Outcomes
- Syllabi of 1st and 2nd round OBE pilot courses
- Good practice sharing notes

- CELT

- If you need help from CELT, then please contact Nick: email - ctnick or ext 6809
- Please visit the OBE web site at <http://celt.ust.hk/obe> – this is regularly updated