



# Teaching Toolkit

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## Planning a Teaching Session

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In an outcomes-based curriculum, classes, modules, and programmes are designed based on the end goal, the skills and knowledge the students should be able to achieve as a result of the class, module, or programme.

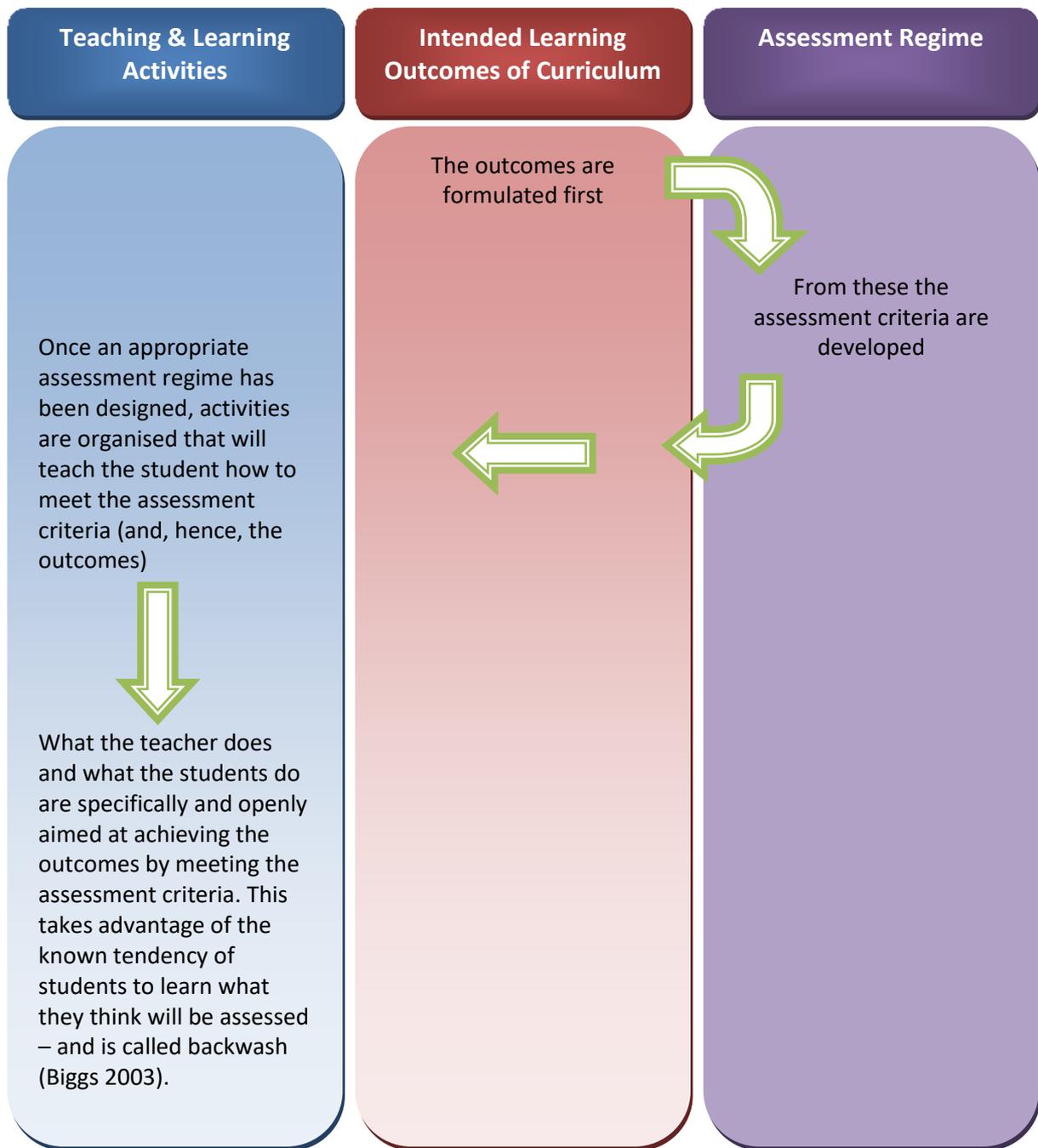
Despite inconsistencies in the literature, it has been recommended that the term 'outcomes' is used to describe what a student should be able to do at the end of a lesson, module or course. The term competencies (sometimes referred to by the synonymous term "competences") is best used as defined by European Union's Tuning Project, namely, as what students have when they have successfully achieved the stated outcomes of a programme of learning (Deusto University 2006).

The main theoretical underpinning of the outcomes-based curriculum is provided by Biggs (2003). He calls the model *constructive alignment* which can be defined as:

*...coherence between assessment, teaching strategies and intended learning outcomes in an educational programme*  
(McMahon & Thakore, 2006, p10)

Constructive alignment, generally attributed to Biggs (2003, 1999), requires alignment between the three key areas of the curriculum, namely, the intended learning outcomes, what the student does in order to learn, how the student is assessed (see Figure 1).

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*Figure 1: A Basic Model of an Aligned Curriculum*

Biggs suggests that teaching and learning activities are designed second and the assessment regime third. An example of constructive alignment in a curriculum is presented in Figure 2.

<b>Title of Module:</b> Evaluating and Reflecting on your Teaching.		
<b>Outcomes</b> <i>On completion of this module you should be able to:</i>	<b>Assessment</b> <i>Critically reflective written report containing the following:</i>	<b>Teaching / Learning Activities</b>
Monitor, evaluate and reflect on your teaching and the learning of your students	Evidence of having completed the prescribed mentoring – observation cycle  A reflective statement of personal and professional gains made from the peer observation process	Introductory Group Tutorial – Revision of critical reflection theory (from previous modules).  Seminar:  Introduction to Peer Observation and the use of a Learning Contract.  Project: be observed teaching and take part in a reflective discussion with the observer.
Use a range of methods to gather student feedback.	Evidence of having received and responded to student feedback  A reflective statement of what has been achieved as a result of gathering feedback from students.	Workshop:  Methods of Gathering Student Feedback  Project: Collect, analyze and respond to feedback from students undertaking a module or course.
Contribute to the debate on the links between research and teaching.	Formatively assessed by tutor comments in forum. (In preparation for formal assessment of this outcome in a future module.)	On line forum.

*Figure 2: An Example of Constructive Alignment in a Curriculum*

If this sequence is adopted, it is important that activities are designed which enable students to learn how to demonstrate achievement at the highest level described by the outcomes. This can be done by focusing on the verbs within the outcomes that express “the very best understanding that could reasonably be expected” (Biggs p.28).

Appropriate verbs can be discovered or derived by relating the model to a learning taxonomy such as that devised by Bloom (1956) as revised by Anderson et al (2001) and that devised by Biggs & Collis (1982). (See Figure 3)

<b>Bloom's Taxonomy</b> (Revised by Anderson et al 2001)	<b>Biggs' "Levels of Attainment"</b>	<b>Biggs &amp; Collis' SOLO Taxonomy</b>
<b>Synthesis / Creation</b> (Design, organise, formulate, propose)  <b>Evaluation</b> (Judge, appraise, evaluate, compare, assess)	<b>A:</b> The very best understanding	<b>Extended Abstract Thinking</b> (Theorise, generalise, reflect, evaluate)
<b>Analysis</b> Distinguish, analyse, calculate, test, inspect.  <b>Application</b> Apply, use, demonstrate, illustrate, practice.	<b>B:</b> Highly Satisfactory	<b>Relational Thinking</b> (Explain, analyse, compare, apply)
<b>Comprehension</b> Explain Describe, discuss, recognise.	<b>C:</b> Quite Satisfactory	<b>Multi-structural Thinking</b> (Classify, comment upon)
<b>Knowledge</b> Define, list, name, Recall, record	<b>D:</b> Just a Pass	<b>Uni-structural</b> (State, describe)
	<b>E:</b> Fail	<b>Pre-structural</b>

*Figure 3: Relating the Constructive Alignment Model to Learning Taxonomies*

Biggs notes that if the assessment regime does not properly reflect curriculum objectives then the result will be inappropriate “surface” learning. He then goes on to propose that educators use the inevitability of backwash to secure effective educational reform.

*You can't beat backwash, so join it. Students will always second-guess the assessment task and then learn what they think will meet those requirements. But if those assessment requirements mirror the curriculum, there is no problem. Students will be learning what they are supposed to be learning*  
[Biggs 2003: 210].

This concept of backwash is a key element of, and justification for, the adoption of Bigg's Model of Constructive Alignment because it is validated by a great deal of independent research (Atkins et al 1993, Ramsden 1992, Scouller 2000).

This does not, however, in anyway diminish the importance of the other two components of the curriculum. Any review or revision of any one of the three components of an aligned curriculum requires a matching review or revision of the other two. Where a curriculum is not aligned – i.e. where there is a discontinuity between any two of the components – it is likely that there will be a mismatch between intention and product.

At a more complex level, constructive alignment requires a balance and synergy between:

- the professional goals of the teachers
- the wants and needs of the students
- the curriculum
- the teaching methods used
- the assessment procedures used and the method or report results
- the psychological and social climate of the classroom (learning milieu)
- the psychological and social climate of the institution

Each of these components needs to work towards common goals. Imbalance in the system will lead to poor teaching and surface learning. Non alignment is signified by inconsistencies, unmet expectations, and practices that contradict what we preach (Biggs 2003: 26).

## Teaching Session Plans

To help provide a framework and an objective way of considering how learning objectives are addressed in each session a lesson plan should be completed for each class (see below for an example template). Its role isn't to provide a comprehensive list of the content to be covered. Rather it helps to organise the lesson around the outcomes to be addressed and what the students is required to do to fulfill these outcomes.

<b>Title:</b>	<b>Module:</b>	<b>Number in Sequence:</b>
<b>Duration:</b>		
<b>Aim(s):</b>		
<b>Outcomes: At the end of this session the students should be able to:</b> i) ii) iii) iv) v)		
<b>Teacher Activity</b>		<b>Student Activity</b>
<b>Resources needed:</b>		

*Figure 4: Teaching Session Plan - Template*