## **Effective feedback to students**

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#### Agenda

#### Assessment and feedback Criteria for effective feedback FAST studies Reflection





'... if we wish to discover the truth about an educational system, we must first look to its assessment procedures' (Rowntree 1987)

Learning is influenced by assessment rather than teaching (Snyder 1971, Miller and Parlett 1974, Sambell and McDowell 1998)

#### **Assessment and learning**

### Conflicting models and assumptions

| Teach and test         | or | Learn and achieve      |
|------------------------|----|------------------------|
|                        |    | (Segers et al 2003)    |
| Surface learning       | or | Deep learning          |
| Knowledge transmission | or | Knowledge construction |
|                        |    | (Laurillard 2002)      |

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## **Conditions for effective feedback**

Students must

know the goal/standard.

compare performance with the goal.

take action to close the gap.

Sadler 1989

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## **Effective feedback practice**

Facilitates self assessment.
Encourages dialogue round learning.
Clarifies what good performance is.
Provides opportunities to close the gap.
Delivers high quality information to students.
Motivates and builds self esteem.
Provides information to teachers.

Nicol and Macfarlane-Dick 2004

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#### **Assessment for learning**

Framework (Gibbs and Simpson 2004) developed from theoretical and empirical analysis within a constructivist model. Issues are;

#### Engagement



#### Feedback

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#### **Assessment for learning**

Engagement and feedback issues unpacked

Quantity and Distribution of Student Effort Quality and Level of Student Effort

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Quantity and Timing of Feedback Quality of Feedback Student Response to Feedback

11 conditions tested using a standard questionnaire

## **Assessment for learning**

Feedback is provided often enough & in enough detail

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- Feedback is provided quickly enough to be useful to students
- Feedback focuses on learning rather than on marks or the students themselves
- Feedback is linked to purpose of assignment & criteria
- Feedback is understandable to students
- Feedback is received by students and responded to
- Feedback is acted upon by students to improve their work or their learning



- Assessment experience questionnaire
- Follow up surveys, interviews etc. (e.g. perceptions of feedback questionnaire, written feedback coding tool etc)
- Tailored reform
- Evaluation

## **Example FAST data**

Questionnaire section **Disagree** or Agree or Strongly strongly disagree agree **Quantity and timing** 74% 12% feedback e.g. I get plenty of feedback on what I am doing. **Quality of feedback** 74% 13% e.g. The feedback helps me understand things better.

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**Brown et al (2003)** 

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#### Is feedback used?

# Positive responses drop to ~60% when students are asked about active use of feedback.

I look at the marks and then put the script in a drawer in case it is useful for revision.



## **FAST** follow up

**Typical conclusions** 

- Students make limited use of the assessment
- Written feedback doesn't encourage feedforward

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- Feedback may too slow to be useful
- Informal feedback may not be recognised
- Course design may not promote use of feedback

#### Hence, targeted reform



## **Reforms implemented**

#### Examples

- Speed of feedback (computer based)
- Introduction of peer assessment
- Focused feedback
- Greater emphasis on feedforward
- Target setting to encourage engagement with feedback
- Opportunity for immediate response to feedback

#### **Computer based feedback**

Improvement in the speed of feedback Individually tailored Anonymity may suit anxious students 24/7 availability Reduced marking demands

Course design can make use of speed etc to encourage student engagement with feedback

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#### **OpenMark**





#### **Maths for Science**

| S151 Practice Assessment - Microsoft Internet Explorer provided by The Open Univer 💷 🗖 🔀   |   |  |  |
|--|---|--|--|
| The Chapter Help<br>Chapter 3 Question 5<br>If $L = 6.1 \times 10^{30}$ W and<br>$F = 4.9 \times 10^{-10}$ W m <sup>-2</sup> , find <i>d</i> in the equation<br>$d = \sqrt{\frac{L}{4\pi F}}$<br>You should give your answer in scientific notation, with the correct number of significant figures and the correct SI base units. <i>N.B. You do not need to understand the underlying science or the units used in order to answer this question.</i><br>$d = 3.147 \times 10^{19}$ m <sup>2</sup><br>Normal © Superscript | Vour answer is still incorrect.<br>You have given your answer to an incorrect number of significant figures.<br>In addition, the units you have given are incorrect.<br>Significant figures and rounding in calculations are discussed in Section 3.1.2.<br>You can use the units given for <i>F</i> and <i>L</i> to work out the correct units for <i>d</i> (see Section 3.5.4). |  |  |
| lick on 'ok' or press Enter  | 13 of 42  |  |  |

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Quantity and Timing of your feedback

Quality of feedback

Student response to feedback

How do you know?