Adaptive formative assessment tasks offered as Open Educational Resources
University of New England

80% of students study by distance

1500 quizzes per trimester
Self-assessment is an effective way of providing timely feedback to distance education students and has the added benefit of involving students in making judgments about their learning. It is mostly used as formative assessment to cultivate reflection on one’s achievements or identify areas of improvement. (Boud & Falchikov, 1989)
Self-assessment is an under utilised form of assessment that fosters reflection and develops a positive sense of self-efficacy. Self-assessment plays an important role by encouraging students to view their work as an ongoing source of learning. This assists them to develop as independent and autonomous learners (Challis, 2005).
Macfarlane-Dick (2006) have identified seven principles of good practice for formative assessment based on their model of self-regulated learning and feedback.

- Helps clarify what good performance is (goals, criteria, expected standards)
- Facilitates the development of self-assessment (reflection) in learning
- Delivers high quality information to students about their learning
- Encourages teacher and peer dialogue around learning
- Encourages positive motivational beliefs and self-esteem
- Provides information to teachers that can be used to help shape teaching
- Provides opportunities to close the gap between current and desired performance
Self-Assessment Quiz

Adaptive design

1 Incorrect
2 Incorrect
3 Incorrect

END Different paths depending on your response
Adaptive eLearning Platform
rich | interactive | adaptive
Every education leader needs an adaptive learning infrastructure.

That’s why we built Knewton.

DATA COLLECTION INFRASTRUCTURE
- Adaptive Ontology
- Model Computation Engine

INFERENCE INFRASTRUCTURE
- Psychometrics Engine
- Strategy Engine
- Feedback Engine

PERSONALIZATION INFRASTRUCTURE
- Recommendations Engine
- Predictive Analytics Engine
- Unified Learning History
What do you think?
Understanding
Q1 To what extent do you agree with the following statement. The Self-Assessment Modules assisted with my understanding of the material presented in this unit?

Answered: 29  Skipped: 0

 Agree

 Disagree

 Strongly Agree

Trimester 1 2013 PAIS101
Q1 To what extent do you agree with the following statement. The Self-Assessment Modules assisted with my understanding of the material presented in this unit?

Answered: 29

Neither agree nor disagree

Agree

Strongly Agree

Trimester 3 2013 PAIS101
Q1 To what extent do you agree with the following statement. The Self-Assessment Modules assisted with my understanding of the material presented in this unit?

Answered: 18  Skipped: 0

- Strongly Agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly Disagree

Trimester 1 2014 PAIS101
Q1 To what extent do you agree with the following statement. The Self-Assessment Modules assisted with my understanding of the material presented in this unit?

Answered: 22  Skipped: 0

- Strongly Disagree
- Neither agree nor disagree
- Strongly Agree
- Agree

Trimester 2 2013 MICR220
Q1 To what extent do you agree with the following statement. The Self-Assessment Modules assisted with my understanding of the material presented in this unit?

Answered: 12  Skipped: 0

Strongly Agree

Agree

Trimester 2 2013 SOCY333
Self-efficacy
Q2 To what extent would you agree with this statement: I was more confident in tackling the online quiz as a result of completing the Self-Assessment modules.
Q2 To what extent would you agree with this statement: I was more confident in tackling the online quiz as a result of completing the Self-Assessment modules.

Answered: 24   Skipped: 2

- Strongly Agree
- Agree
- Neither agree nor disagree
- Disagree

Trimester 3 2013 PAIS101
Q2 To what extent would you agree with this statement. I was more confident in tackling the online quiz as a result of completing the Self-Assessment modules.

Answered: 18  Skipped: 0

- Strongly Disagree
- Neither agree nor disagree
- Agree
- Strongly Agree

Trimester 1 2014 PAIS101
Q2 To what extent would you agree with this statement. I was more confident in tackling the online quiz as a result of completing the Self-Assessment modules.

Answers: 22  Skipped: 0

- Strongly Agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly Disagree
Q2 To what extent would you agree with this statement. I was more confident in tackling the online quiz as a result of completing the Self-Assessment modules.

Answered: 12  
Skip: 0

- Neither agree nor disagree
- Strongly Agree
- Agree
Other Units
Q5. Would you like to see the Self-Assessment Modules in other units you are studying?

Answered: 29  Skipped: 0

- Agree
- Strongly Agree
- Neither agree nor disagree
Q5 Would you like to see the Self-Assessment Modules in other units you are studying?

Answered: 25  
Skipped: 1

Neither agree nor disagree

Agree

Strongly Agree

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Trimester 3 2013 PAIS101
Q5 Would you like to see the Self-Assessment Modules in other units you are studying?

Answered: 22  Skipped: 0

- Neither agree nor disagree
- Agree
- Strongly Agree
Q5 Would you like to see the Self-Assessment Modules in other units you are studying?

Answered: 12  Skipped: 0

- Neither agree nor disagree
- Strongly Agree
- Agree

Trimester 2 2013 SOCY333
Positive Aspect
A key recommendation of the JISC-funded OER Impact Study (2011): “Funding work that makes OER produced by universities in particular more accessible will have a substantial positive impact on reuse”.

(White & Manton, 2011)

UNESCO Paris Declaration at the World Open Educational Resources (OER) Congress: “Improve both cost-efficiency and quality of teaching and learning outcomes through greater use of OER”.

(UNESCO, 2012)
MERLOT is a free and open peer reviewed collection of online teaching and learning materials and faculty-developed services contributed and used by an international education community.
References


UNESCO. (2012). *Paris Declaration*. World Open Educational Resources (OER) Congress