

Making learning visible





* Michael Botelho - Faculty of Dentistry

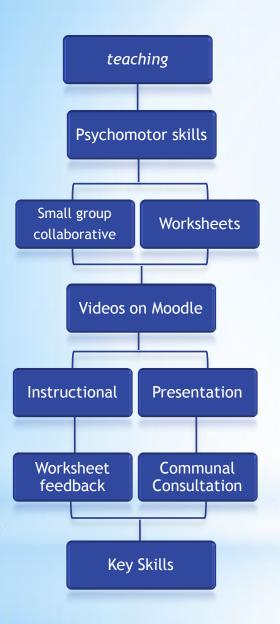


My educational areas of interest - t. CM and S

8 Mind Frames

Teaching Philosophy

E learning





Fixed Prosthodontics (Conventional Bridge & Resin-bonded Bridge)

(If you cannot view the videos properly, please click here to enable YouTube HTML5 video player in your browser.)

L would like to showedy thank all the students who have apreningly participated in these traching and learning videos and allowed exciting tearning experiences. contact the sensitivity of the students who have appreningly participated in these two Command Consultation video or her SMM evaluation releaved please who have regret on these

Michael Botelho		
A1. RBB Simulation Laboratory Course	Video	мсq
1. Introduction to the RBB course (uploaded on 25 Sep 2014)		
2. Presentation and overivew on RBBs		quitz
3. Explanation of different resin bonded bridge designs		quite
i. Brief overview of the types of resin bonded bridges - Upper and lower stone models (uploaded on 25 Sep 2014)		
4. Tooth Preparation		
a. Principles of preparation for anterior abutment (uploaded on 25 Sup 2014)		
a. Principles of preparation for posterior abutment (uploaded on 25 Sep 2014)		
iii Cementation of two FM3-RBBs (Quiz uploaded on 3 Nov 2014)		quitz
5. Framework designs and Snaptone outlines		
i. RBB presentations of design options for missing 24 and 26 (uploaded on 12 May 2015)		
ii. RBB discussion of molar Kavo prep		
iii. RBB outlining framework on snapstone models		auitz
a. Evaluation of framework extension on oversized stone incisor (uploaded on 25 Sep 2014)		
iv. RBB path of insertion 23		quitz
A2. Worksheet feedback	Video	мсо
1. Discussion of worksheet for Case 1 (uploaded on 12 May 2015)		

BDS IV Jaw record worksheet 2016 – Please complete page 1-2 before next session

<u>From,Dent Today</u>, 2010 Jan<u>;29(1)</u>:124, 126-7. Accurate bite records: improving restorative predictability. <u>Scott J</u>.



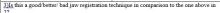
1)What are the different materials that have been used here in the picture?

> Which of these look like poor jaw record registrations and why?

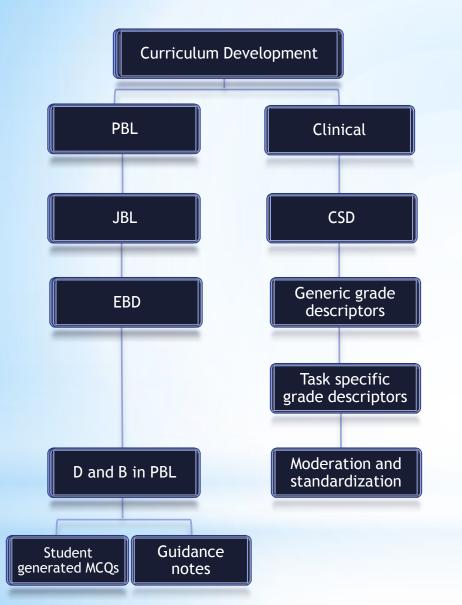


2)What do you think are the good features of this jaw record technique? And what are the poor features?



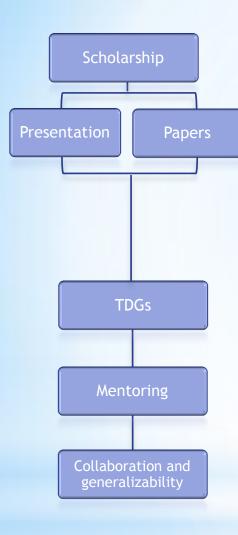


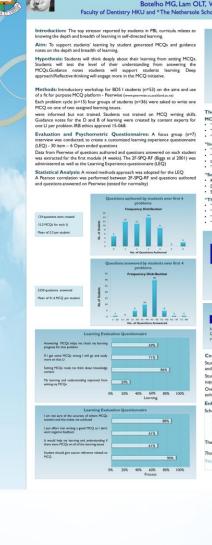












Evaluation of peer-generated MCQs to assess and support learning in a problem-based learning programme Botelho MG, Lam OLT, Watt RM, Leung DYP* Faculty of Dentistry HKU and *The Nethersole School of Nursing, Chinese University of Hong Kong



0% 20% 40% 60% 80% 100% Depth and Breadth of Guidance Notes

Thematic qualitative analysis

MCQs engaged students to study deeper and facilitated their learning

- "...deepen understanding and allow clarification of concepts' "Process knowledge, not only memorize"
- · "...how to connect the ideas"

- "Increased learning awareness" "...know what I don't know" "I could check if I have studied enough on that topic" to "test myself if I can retain the knowledge" "Recognize my confusion"
- "Setting MCQs was challenging"

Knowing the right question to set Devising appropriate distractors

- Setting challenging questions

- The two factor Study Process Ques
- "The guidance notes helped..." "It cats like a blue print"... as a reference" "Similar leaning suses have similar depth and breadth" "Tig pres an idea towards how' i should learn'intersearch" "It dight ...br. no possible to determine the depth of the LI from that of the other"

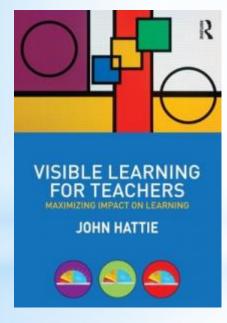
ire - Deep and Surface appr



- supported learning activity Overall this initiative supported students depth and breadth of learning but further
- enhancements are planned Enhancements... next term

- Schedule time into PBL tutorial for facilitators to: Support student engagement in writing and answering MCQs Give feedback on accuracy of generated MCQs
- Discuss the quality features of question stems and distractors Discuss D and B of learning issues in relation to guidance notes and other LIs are planned
- The use of LI guidance notes will be extended to BDS II
- Thanks for the Class of 2020 for their participation and support in this project

Contact e-mail: botelho@hku.hk



*John Hattie's 8 Mind frames

"teachers seeing learning through the eyes of their Students, and student seeing themselves as their own teachers"

*The 8 Mindframes



*<u>https://www.youtube.com/watch?v=5WSTcVDwH3s</u>



My fundamental task is to evaluate the effect of my teaching on my students' learning and achievement.



SETL? and in-house evaluation questionnaires Self-administered questionnaires Speak to students Watch students Ask Co-teacher feedback Ask recent graduates Review and reflect on assessments



I am responsible for *architecting* the learning experience -



Plan - what is the scope and depth? what is important?

Evaluate - reflective practitioner problematize? -

Re-plan - evolution or revolution?



- * "Awareness is the greatest agent for change"
- Eckhart Tolle



In my course and "lectures"..

Small-group,

Collaborative/interactive,

Challenging problem/scenario driven,

Prior knowledge applied to context,

E-Learning

Zone of Proximal Development

	Skills too difficult for a child to master on his/her	
	own, but that can be done	
What	with <u>guidance</u> and	What
is	encouragement from a	is not
Known	knowledgeable person.	Known





Manage the learning environment

Communicate the objectives Set the Tone Structure the activity Engage interactions BDS IV FPD course 2015-16 Worksheet 3 Conventional FPDs

Semester 2 session 3-4

Temporary fixed prosthodontics Q1. What are the functions of a diagnostic wax-up

Q2. What are the functions of a temporary FPD?

Problem: You tell your partner that after finishing trimming your temporary bridge it is difficult to seat and remove from the abutments.

Q3. Your smarty pants partner tells you that there are four main reasons for this.....

Problem: A colleague is examining your temporary bridge and when they remove it from your tage tooth preparation abutments the temporary breaks!! They apologise but tell you that the temporary would have broken in the mouth during function as it and was probably weak because of:

Problem: Your colleague shows you their bridge preparation for assessment. You notice that the individual, abutments have limited taper and no undercut but that they have different paths of insertion to each other.

Q4. You try on their temporary restoration and it fits well and comes off easily. Why is this?

<u>Q5. You</u> tell your partner that they will have to make the final <u>ceramometal</u> bridge to overcome the different paths of insertion.

E² - Engage, Elaborate and Exchange

Please switch phones to "education mode"

Ask not to engage in use of social media etc. during L and T time

Be in-the-moment of learning



Avoiding social media etc?

ELSEVIER	Computers & Education Volume 62, March 2013, Pages 24–31	Congression Editorial and an
Laptop mu and nearby	Ititasking hinders classroom learning for / peers	both users
Faria Sanaª <u>⊠,</u> T ⊞ Show more	ina Weston ^{b, o,} ≝, Nicholas J. Cepeda ^{b, o,} ≛ · <u></u>	
doi:10.1016/j.com	pedu.2012.10.003	Get rights and content
Under a Creative	Commons license	
		Open Access

multitasking on a laptop poses a significant distraction to both users and fellow students and can be detrimental to comprehension of lecture content.



It's not really T and L...

Student centered, small group, peer-to-peer

Interactive, dialogic - make the understanding and learning visible

Authentic, in context



I seek out feedback. Assessment is about my impact on student learning.





students co-teachers recent graduates



Examine

Faculty course evaluation, Personal course evaluation,



dialogue, not monologue.

Student to student Student to teacher Teacher to student

"student seeing themselves as their own teachers"

Make the understanding and learning visible

The best teachers are neophytes!









What's wrong? What can be improved on? ... problematize

In-the-moment note taking

CETL seminars/workshops

TDGs

E-learning - videos, MCQs and case based learning



It is my role to develop positive relationships in the classrooms and staff tooms.

Classroom - relations

Introductions - "Good morning" "I am Dr Michael Botelho from Oral Rehabilitation"

Scene setting - Course/lecture objectives, my expectations on behavior, thank those for being on time, do not to disturb others by multitasking

L and T - "are we on task?" At the end review acheivements/outcomes give feedback on how they have done

Thank students for their attention



I inform everyone about the language of learning. I am passionate and promote growth.

Co-PI junior staff for TDG applications

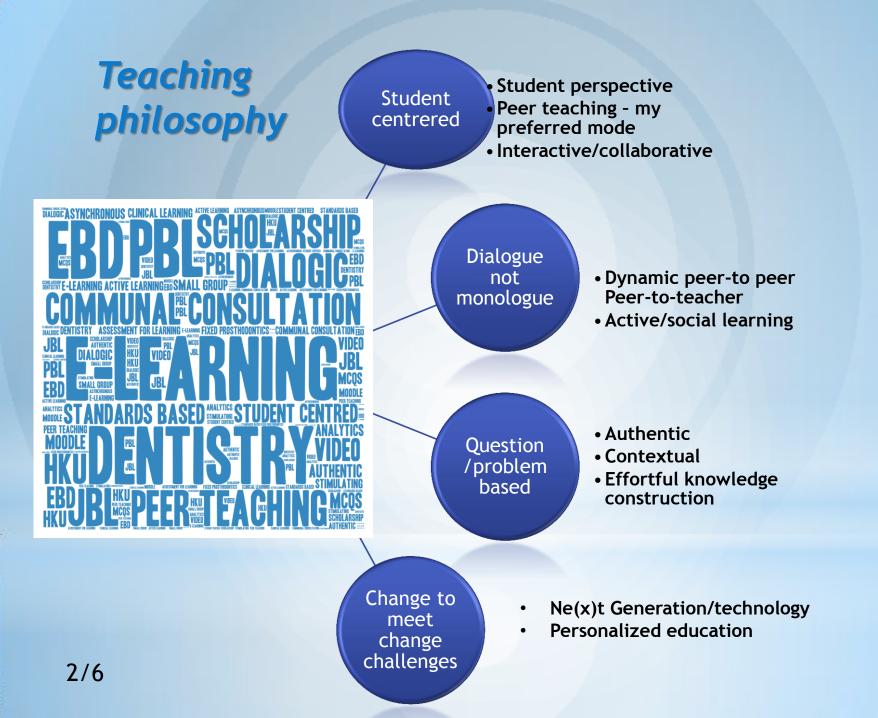
What about senior staff?!

Support colleagues - peer observation

Interfaculty support, collaboration and research

Opening the black box of assessment

Talk the walk of pedagogy





...You say you

are a "control-freak" but I DO think tutors should be like that....It's just that we are just so used to tutors not really caring about our attitudes in class....

*Classroom management





*Classroom management



Most important of all, you lecture us all about professionalism!! I think that's a really important aspect that many students are missing because as I said before, most tutors won't pick on it so students get used to adopting "unprofessional" behavior in class.



professionalism /p professionalism in w professionalism in w skill and high standa skill and high standa

*Think, ink, pair, share, feedback

Personally, I find that I was learning a lot and very actively in his FPD course. The course is designed to incorporate interactive learning with lots of Q & A opportunities such that students have plenty of chances to clarify their doubts. Inside the classroom, we had weekly worksheets that had to be first discussed among small groups of five before being clarified together with the whole class. This stimulated me to think more critically using my current knowledge and not





Instead of simply giving the answer right away, he would often raise related questions to guide the students to the right track, to enable them to reach the answers to their own questions. It may not fit students who are so used to the spoon-feeding type of learning, but indeed inspires many who are willing to learn.

* Effortful knowledge construction



clarified together with the whole class. This stimulated me to think more critically using my current knowledge and not to be simply spoon-fed with answers right from the beginning. Upon the whole-class discussion, I learnt to point out my own weaknesses or misconceptions and rectify them. I believe that the teaching method employed by him greatly helps me to retain the knowledge for a significantly longer period of time.

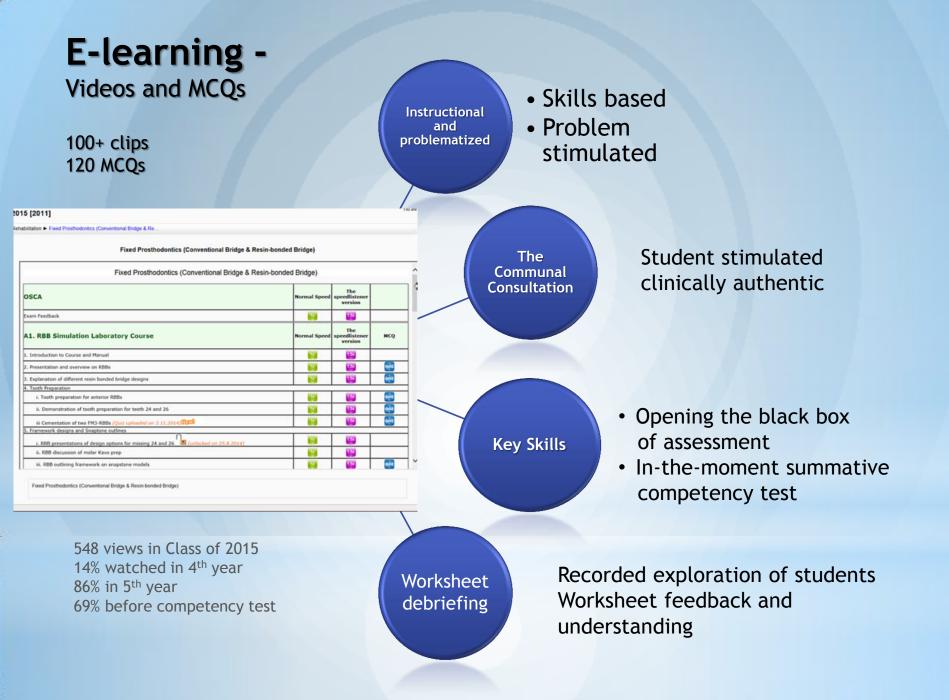
*Reeper thinking



First of all, I think your "interactive" SimLab class in which you walk around the SimLab asking questions to random students really enhances our attention span and really forces us to pay attention in class....thus it is very hard to fall asleep during your class!! @

Active, social, interactive





you upload videos for us to prepare for the lesson beforehand. This definitely helps students catch up with the lesson easier, and by recording and uploading how you answer some of the student's questions you help all other students to be aware of what was asked and help us all be in the same level of knowledge....

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OSCA	Normal Speed	The speedlistener version			
Exam Feedback					
A1. RBB Simulation Laboratory Course	Normal Speed	The speedlistener version	мсо		
1. Introduction to Course and Manual					
2. Presentation and overview on RBBs			999		
3. Explanation of different resin bonded bridge designs			egit2		
4. Tooth Preparation					
i. Tooth preparation for anterior RBBs		1	egie		
ii. Demonstration of tooth preparation for teeth 24 and 26			4		
iii Cementation of two FM3-RBBs (Quiz uploaded on 3.11.2014)		-	6		
5. Framework designs and Snaptone outlines					
i. RBB presentations of design options for missing 24 and 26	(4)				
ii. RBB discussion of molar Kavo prep					
iii. RBB outlining framework on snapstone models	1000	1000	1573		

Fixed Prosthodontics (Conventional Bridge & Resin-bonded Bridge)

Asynchronous,

outside class learning,

preparation,

revision,

rehearsal

*Multimedia Library

Multimedia Video Library



the Communal Consultation -

Speedlistner version - 1.5X

*Multimedia Library

Final thoughts

- *Supporting staff TDGs, teaching
- *Interfaculty collaboration and research
- *Analyzing the Communal Consultation/Key Skills video
- *Making pedagogy more transparent
- *New E learning MCQs and case based



*Going forwards



For staying in-the-moment!

Feedback Please!

http://odont.hku.hk/feedback.html

botelho@hku.hk





Key Skills -

Speedlistner version - 1.5X

*Multimedia Library



E-learning - taking the next step?

MCQ type platform to evaluate students recognition and diagnosis skills

Preload students with knowledge and assess before they are permitted to proceed to the next part of the course

Spaced repetition

Tag questions to: clinical discipline, subject content and question type. ie. Oral rehabilitation, dentures, facts/understanding