

Queensland University of Technology Brisbane Australia

This may be the author's version of a work that was submitted/accepted for publication in the following source:

Singleton, Judith A. & Kenyon, Johanna J. (2018) GATES: An online step-wise blackboard tool to develop student collaborative teamwork competencies. In *12th International Lifelong Learning in Pharmacy (LLLP 2018)*, 2018-07-06 - 2018-07-09. (Unpublished)

This file was downloaded from: https://eprints.gut.edu.au/119887/

#### © 2018 the Author(s)

This work is covered by copyright. Unless the document is being made available under a Creative Commons Licence, you must assume that re-use is limited to personal use and that permission from the copyright owner must be obtained for all other uses. If the document is available under a Creative Commons License (or other specified license) then refer to the Licence for details of permitted re-use. It is a condition of access that users recognise and abide by the legal requirements associated with these rights. If you believe that this work infringes copyright please provide details by email to qut.copyright@qut.edu.au

**Notice**: Please note that this document may not be the Version of Record (*i.e.* published version) of the work. Author manuscript versions (as Submitted for peer review or as Accepted for publication after peer review) can be identified by an absence of publisher branding and/or typeset appearance. If there is any doubt, please refer to the published source.

# GATES: An online stepwise tool to develop student teamwork competencies

Judith Singleton & Johanna Kenyon OUT



Theory & literature support group assignments



Allied health professionals work in teams in real world contexts

### Group assignments develop:

- communication skills,
- conflict resolution skills, &
- negotiation skills

### Students report negative experiences .....





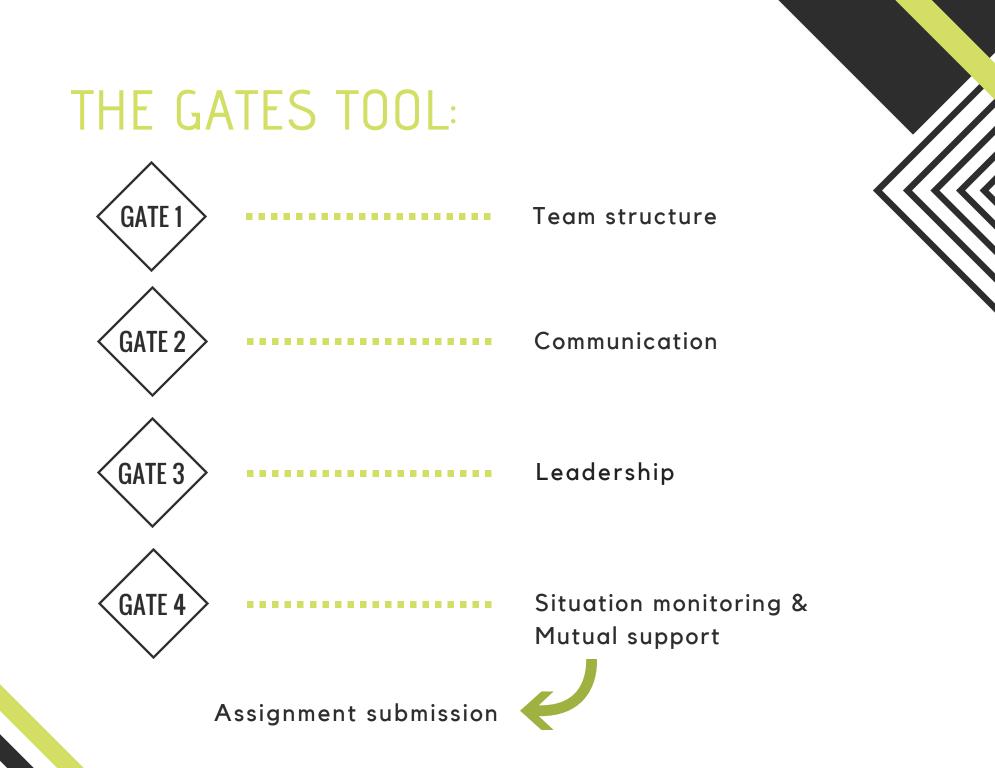
### AIM:

Develop sophisticated, lowmaintenance tool to improve the collaborative competencies of students engaged in group-work assignments



# WHAT IS GATES?

- A platform of four sequentially released 'GATES'
- Each 'GATE' was specifically developed to integrate core teaching and learning principles within an evidencebased framework
- Modelled on TeamSTEPPS 2.0 framework for US Healthcare teams



### METHODS Participant Recruitment

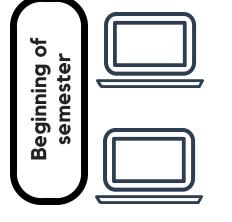


Total Student Cohort = 693

Email sent out to all students enrolled in these units inviting them to participate - PIC forms attached to email

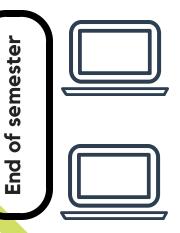
### **METHODS**

Anonymous online questionnaire - Key Survey



Academics: n = 5

Students: n = 187 (26.98% response rate)



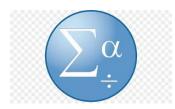
Students: n = 102 (14.72% response rate)

Academics: n = 5

# MIXED METHODS

### Data Analysis

#### Quantitative data



**IBM SPSS Version 25** 

#### **Qualitative data**

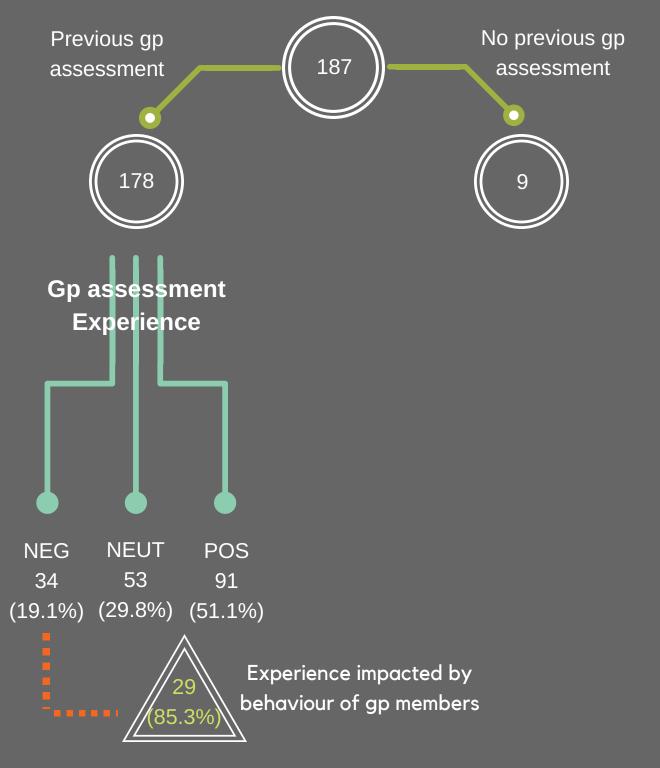


Leximancer

Manual coding



RESULTS: Phase I: Beginning Of Semester: Students





Higher proportion (67.65%) students who reported neg. experience with gp assessments vs 13.33% of students of reported pos. experience with gp assessments do not believe gp assessments are fair & effective means of assessing knowledge

 $\underline{(\lambda_4^2 = 40.544, p < 0.001)}$ 



A higher proportion of students (32.08%) who reported previous group assessment tasks as positive experiences agreed that the group assessment task process would be easier if resources to support team competencies were provided compared with students who reported negative experiences (5.35%) with previous group assessment tasks

$$(\lambda_4^2 = 17.053, p = 0.002).$$

#### **CALD vs NON-CALD STUDENTS**



A greater proportion of CALD students (60.42%) compared with 47.69% of non-CALD students reported a positive experience with gp assessments  $(\lambda_3^2 = 13.731 \text{ p} = 0.022)$ 



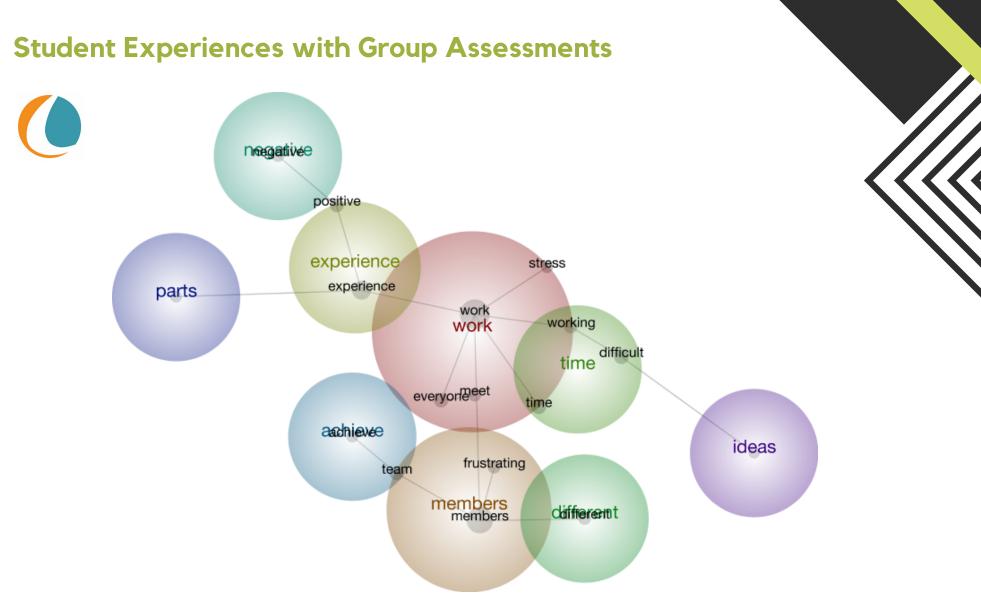
A higher proportion of CALD students (48.94%) compared with non-CALD students (21.71%) also believed that group assessment tasks were an effective and fair means of assessing their knowledge compared with the non-CALD students

 $\lambda (\lambda_2^2 = 9.637, p = 0.001)$ 



A significantly higher proportion of CALD students (72.34%) supportive of resources being available to support team competencies and help students manage team issues if they arose compared with non-CALD students (51.94%).

$$(\lambda_2^2 = 8.722, p = 0.013)$$



"Had a team member from hell who ended up being removed from the group due to her behaviour and inability to work with anyone." [SP12]

"Lack of effort from certain team members, resulting in them receiving grades they don't deserve and increasing stress on other members." [SP19]



#### Academics (n = 5)



All 5 had used gp assessments before



 All 5 had experienced team issues with students previously



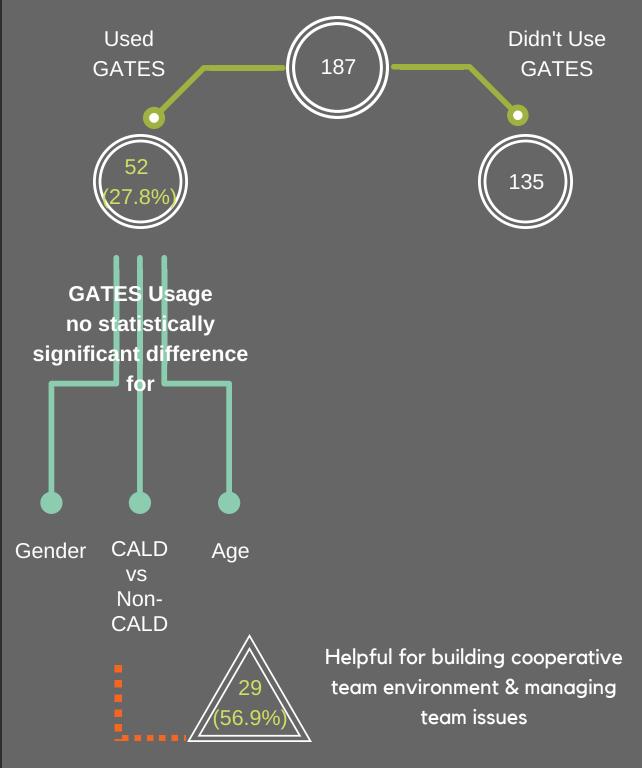
• Fighting, bullying, hitchhikers, team members going AWOL

	2)	
	5/	

• Two use a peer-marking tool - still doesn't eliminate problems



Phase II: End Of Semester: Students





There was no statistically significant difference between CALD and non-CALD students regarding perceptions of the helpfulness of GATES to manage team issues.

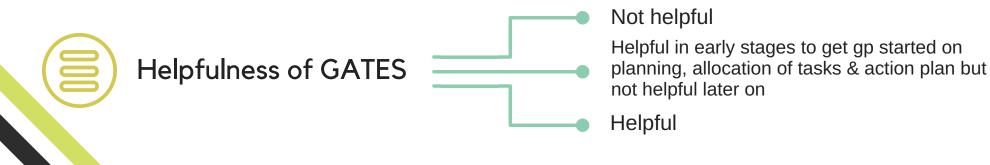


Used GATES; n=51 (data missing for 1); 38 (74.51%) reported a positive experience with the semester's group assessment task and of these 38 students, 27 (71.05%) found GATES helpful in facilitating team work.

#### Student Experiences with Gp Assessment



Similar negative & positive themes to previous experiences





RESULTS: Phase II End Of Semester Academics



'There were a couple of groups who said they had hitchhikers but I don't think they used the GATES tool to help. Most of the groups appear to have had no problems.' [AP2]



'I think the GATES tool got the students working on the group assignment faster than in previous years (I have run this assessment task for the last three years here at QUT)' [AP4]



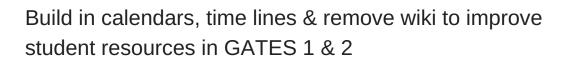
"I think GATES provided structure for students to start their work together. Some groups used it and others did not. Overall, I think GATES was positive." [AP3]



"The GATES tool has been incredibly helpful in facilitating successful group assignments in this unit. Anecdotal feedback from students has suggested that they appreciated this tool to help provide a clear framework for each group member/group, and the resulting assignments were of a high quality." [AP5]

# **DISCUSSION & FUTURE DIRECTIONS**

Assessment item needs to be embedded/integrated with GATES so working through GATES not seen as 'extra' thing to do



GATE 4: Add resources such as videos on conflict resolution & how to have those difficult conversations with team members + more resources on negotiation skills

Course coordinator has to be on board & encouraging use of GATES

# Thank you! Questions?

Judith Singleton & Johanna Kenyon QUT