

Make every course engaging.



## Agenda

- 1. Introductions
- 2. FeedbackFruits mission
- 3. A learning journey with FeedbackFruits
  - a. With demo in Canvas
- 4. Q&A



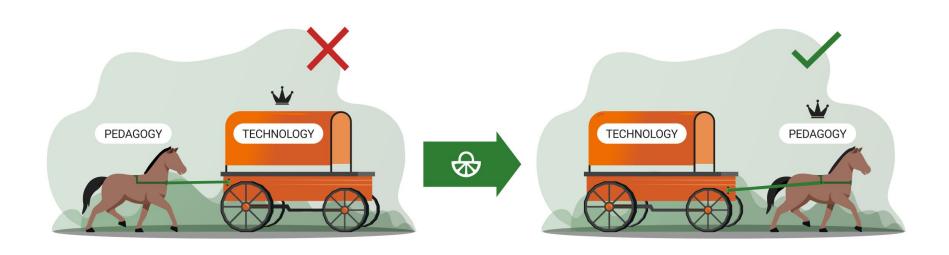
#### Our mission



Allowing everyone to deliver **effective learning experiences**, regardless of **scale** and **context** 

## Pedagogy over technology

How do we want to achieve our mission?



## FeedbackFruits Integrated Teaching and Learning System

#### Feedback & Assessment

- **Group Member** Evaluation
- Peer Review
- Skill Review
- Ê Assignment Review
- Automated Feedback
- Self-Assessment

Collaborative learning and student discussion

- Interactive Study Material
- Comprehension
- Discussion on work
- Discussion on Topic

Synchronous learning



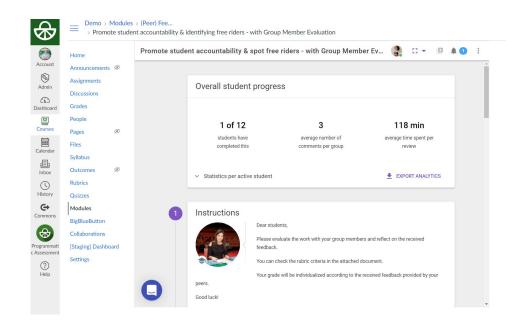






#### These tools can be added to your **Canvas courses**





- Students automatically have access to the activity
- It's possible to sync:
  - Groups and sections
  - o Grades
  - Deadlines
- You can copy and share existing activities



An example learning journey in 8 steps

using the A FeedbackFruits toolsuite







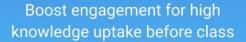
Interactive Class

#### Activate students in class

Dive deeper into the content covered prior to class time, by discussing and answering questions with students that were posted in interactive document, audio or video.







Students explore course material, interactive study material ensures that students engage with material before class, and are able to ask questions.



#### Students work on their project

Students work on the draft version of their project (e.g. essay, case study), either individually or in a small team.





# Reflect on the common themes of improvement

The teachers uses the analytics to spot the common themes of improvements that arose during peer feedback process, and provides in-class reflection time on how to tackle them.





# Encourage students to learn from each other

Stimulate critical reading skills, and self-regulatory learning through peer review. Encourage a dialogue around feedback.





# Students iterate to improve deliverable

The group gathers again to improve their product based on the peerfeedback and teacher insights they received

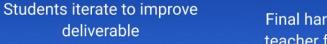












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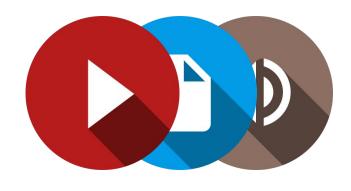
# Final hand-in and teacher feedback

Students hand in their group assignments, and receive teacher feedback based on a set of criteria



# Reflection on collaboration process

If students worked on the project in teams, they can get the opportunity to give feedback on their team members' collaboration skills.



# Interactive Study Material

Interactive Document, Video, Audio

Engage students by letting them interact with the study material, for example by answering questions or discussing with each other

Pedagogical challenge:

Passive consumption of study material



#### Why use Interactive Study Material?























#### Interactive Document

- Article / book chapter with questions
- Case study
- Asking questions about the lecture (slides)
- Students create exam questions

#### Interactive Video

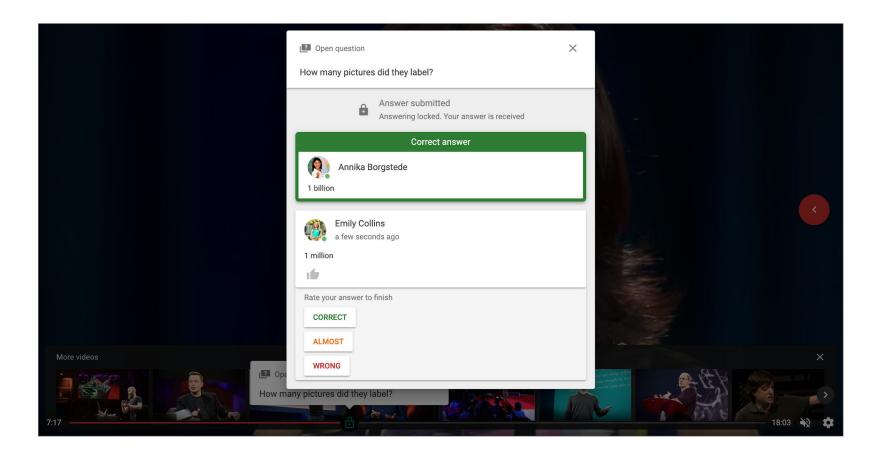
- Knowledge clip / recorded (micro) lecture
- TED talk / news item

#### Interactive Audio

Podcast discussion

## Boost engagement with required questions







# Comprehension

Students improve their understanding of a text by annotating a document based on predetermined topics

Pedagogical challenge: Inefficient reading strategies of students



#### Why use **Comprehension?**

























#### Students annotate a text based on:

- Concepts that are discussed during class
- The structure of a scientific paper ("what is the academic relevance?")
- Supporting / counter arguments discussed in the text

## Test knowledge consumption with social annotations



Students received one point for each of their correct answer in the pre-test and post-test. Scores of the students ranged from 0 to 16 in the multiple-choice test. In order to answer research questions, descriptive statistics, Shapiro-Wilk test, independent t-test and the Mann Whitney U test were used for the data analysis.

#### 3. Results

The descriptive analyses of pre-test and post-test results of participants are presented in the Table-1.

Table-1: The Descriptive Analysis of the Pre-test and the Post-test Results of Participants

		N	Mean	Std. Deviation
D	Experimental Group	20	8.25	2.67
Pre-test	Control Group	15	6.66	2.25
Post-test	Experimental Group	20	15.3	0.73
	Control Group	15	12.26	1.98

Before testing the hypothesis, the tests of normality were conducted to determine which types of test were going to be used for analysis. The results of the Shapiro-Wilk test (see Table-2) revealed that only the post-test scores of the experimental group are not normally distributed. Therefore non-parametric test was used for hypothesis testing when the post-test \_ of the experimental group are analyzed.

Table-2: The Results of the Shapiro-Wilk test

	Shapiro-Wilk			
	Statistic	Df	Sig.	
Ex_pretest	.885	15	.056	
Ex_posttest	.783	15	.002	
Cont_pretest	.964	15	.756	
Cont_posttest	.937	15	.342	

a Lilliefors Significance Correction

r knowledge was compared in the experimental and the control The result of the independent t-test revealed that there was not any si nificant difference between the pre-test scores of the e Table-3). This finding shows that before the study participants' ki of "Atom's structure" is not different from the study participants' kn Introduction perimental and Control Groups v of Means Methodology e Interval of the df Sig. (2-tailed) Experimental-Results 1.85 33 0.073 Control In order to xercises embedded in the instruction improves the Discussion ional exercises. The post-test scores of students in the achievement of of the Mann-Whitney U- test revealed that there is a experiment and

Conclusion

# (Peer) Feedback



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# Peer Review



#### What is Peer Review?

A tool to activate peer learning by allowing students to review each other's work on the basis of customizable feedback criteria

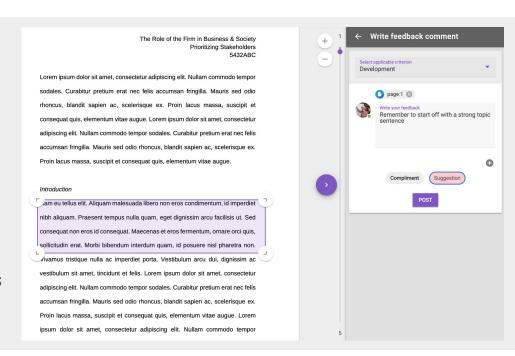


#### What is Peer Review?

Students review the work of:

- a. other individuals
- b. other groups
- c. fellow group members

Common use cases: essay or report draft, video projects, recorded presentations or demonstrations





#### Why use Peer Review?



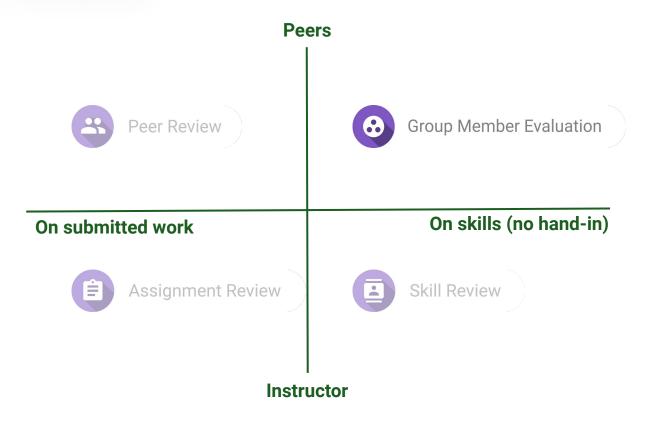
- Save time
- Solve logistical problems (e.g. large class size)
- Facilitate peer learning
- Improve students' feedback-giving skills
- Get insight into the peer review process

#### Peer Review | Summary slide



- Students review handed in work
- Self-assessment can be switched on
- Students automatically receive work to review
- Feedback criteria is customizable
- Activities and feedback criteria are reusable
- Both students and teachers can respond to the feedback
- Review process can be anonymous
- Formative and summative grading options

# (Peer) Feedback







**Group Member Evaluation** 



## What is Group Member Evaluation?

A tool to guide students in assessing the soft skills or performance of their peers or fellow group members

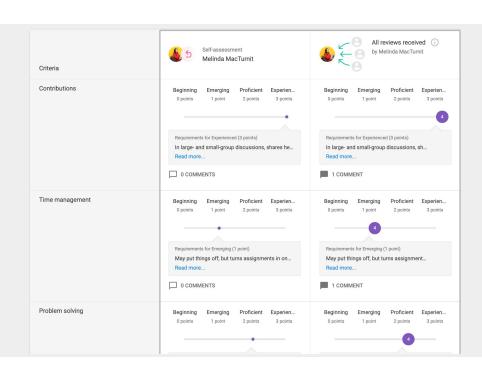


### What is Group Member Evaluation?

Students to evaluate the skills and contribution of:

- a. their group members (in-group)
- b. other groups (out-group)
- c. other classmates (individual)

Common use cases: group work, presentations, simulations





## Why use Group Member Evaluation?



- Student
  - Promote accountability and prevent freeriding
  - Insight into the group-work and feedback process
  - Facilitate peer learning
  - Enhance feedback-giving skills

## Group Member Evaluation | Summary slide

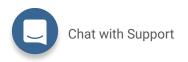


- Students review skill, performance, or contribution of peers
- Self-assessment can be switched on
- Feedback criteria is customizable
- Activities and rubrics are reusable
- Both student and teacher can respond to the feedback
- Reviewers can be anonymous
- Get unique insight into group dynamics
- Prompt self-reflection among students
- Formative and summative grading options

## Questions?











#### FeedbackFruits support



#### More information and contact for help:

- How to get started: <u>partner page</u>
- Help articles per tool and LMS
- <u>Use cases</u> from other teachers
- Support chat or mail to: <a href="mailto:helpme@feedbackfruits.com">helpme@feedbackfruits.com</a>



# Thanks for your participation!



