A+BLe

— An innovative approach to harness the power of assessment to maximize learning

User Guide for **T**eam-based **E-A**ssessment (**TEA**)
基於小組學習的電子評估使用手冊

(1.0 版本)

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手冊目錄

簡介

1)有關本項目背景介紹

    A+BLe 項目由香港大學教學課程與教學學系助理教授**楊蘭**博士担任首席研究員，**林質彬**教授擔任共同首席研究員，霍秉坤博士(課程與教學學系系主任), 徐慧璇博士(課程與教學學系副系主任), 高寶玉教授（實踐), 陳岳青講師, 方蔚子博士, 晏子博士, 楊敏博士, 余慧明博士, 梁源博士(中國語言學系署理系主任), 張淩博士，張僑平博士，孫丹兒博士，陸佳芳博士，王慧博士，冼權鋒教授，蒲安梅博士，楊少詩博士，許麗平博士，孫瑾博士，高放博士等為共同研究員，香港大學教學發展經費所支持的項目。**A+BLe** 的形成與建構基于（**A**ssessment of Learning 學習的評估, **A**ssessment for Learning 為了學習的評估, and **A**ssessment as Learning 作為學習的評估；縮寫為 **A+**）以及 **B**lended **L**earning (混合學習) 的一系列教學理念。混合式學習結合了傳統的面對面課堂學習與高科技電子學習這兩種教育環境中學習的優點。A+BLe 通過結合科技輔助評估以及學習分析技術逐步發展成一套網路評估系統，包含一系列網上評估工具輔助老師根據課程需要有效翻轉課堂，可以簡單地借助瀏覽器執行。A+BLe 旨在培養學生的評估意識，評估素養以及通過融合在教學中的便捷的學習評估為學生提供更多檢視和提升學習的機會。我們希望通過融入自我評價、同伴反饋、教師反饋、可視化反饋結果等方式的 A+BLe 的實施豐富教學活動促進作為學習的評估。

    Team-based E-Assessment (TEA) 【基於小組學習的電子評】估屬於 A+BLe 評估系統中的一項電子評估工具。

    請點擊此處暸解有關 A+BLe 項目共同研究員的更多詳細資訊。

2) 小組式評估（Team-based E-assessment — TEA）

TEA 是基於網路的形成性評估工具可為學生提供即時反饋。TEA 的設計有以下幾項主要學習目的：促進學生間的團隊合作，促進每組成員就老師所設計 MCQ 知識點的討論與提供朋輩回饋。

在積極心理學的成分引入中，正確答案通過稱讚的笑臉作為正面回饋鼓勵學生

學生在討論並嘗試過程中如果沒有答對，也通過設計" Try again"的回饋激勵學生進一步的討論與選擇正確答案。 這使得 TEA 具有有效的目標導向功能，可以讓團隊能夠多次探索和嘗試，直到團隊找到答案，從而鼓勵團隊在形成性評估過程中積極參與和自我反思。TEA 目前開發了有 5 道題和 10 道題的版本，本指引手冊使用的是 5 道題的版本。以下是 5 道題的 TEA 的介面。 具體題目以及選項的描述由任課老師通過 Moodle, Zoom 提供軟體版本以及在實體課室中提供紙質版本。

TEA 的特點簡介：

楊蘭博士團隊製作

部分圖片取材網絡

使用 TEA 的五個步驟

1) TEA 填寫基本信息

請在這裏輸入這門課的課程代碼
(例如 CHI3575）

Team-based E-Assessment and Immediate Feedback Technique (TEA-IFT)

Result check (only for Lecturer)

請選擇是在哪個學期做 TEA 活動的
（例如 2020/2021 Summer）

請在此處選擇或輸入課程講師姓名（如 Yang Lan）

Semester: 2020/2021 SEM II Course code: [ ] Lecturer: Please select ▼

Lesson/Session: Please Select ▼ Team No.: Please Select ▼ Team facilitator(s): [ ]

請選擇你是在第幾節課使用 TEA

請選擇你是第幾小組的

請輸入你們小組的組長名字
请留意 TEA 的討論與答案選擇需要團隊參與但是點擊答案和提交只需要推薦一位組員作為"組長"代表即可

2) 回答 TEA 選擇題

在使用 TEA 作答的時間，請組員們積極討論並就每一道題目的答案達成共識，小組的組長來幫助點選和提交組員決定的這 5 道題的答案。

請根據老師給的工作紙來選擇你們認為正確的選項

過程指導

1. 在小組的讨论下，請組員回答 5 道選擇題。

2. 組長可以分屏給組員，組長可以幫助點選組員達成共識的答案，共用完成 TEA 的過程

3. 當你在做選擇題時，小組得到的即時反饋如下：

=right

=wrong

當你的小组尝试的次数越少，分数就越高！這個過程需要高品質的小組討論與朋輩回饋增加學習機會並達成共識選擇答案，而不只是某位同學代替其他組員點選了正確答案提交就實現了 TEA 設計的促進優質朋輩回饋與提升以小組為基礎的學習機會的目的。

3) TEA 形成性評估解釋

形成性評估過程

　　當你第一次就選擇到了正確答案時，會有一個"笑臉"😊的確認標誌，右邊的分數記為嘗試了1次，得到了4分（註：滿分為4分/題）；

　　當你第一次選擇錯的時候，我們回鼓勵你"再試一次"🔴。此時，你和你的組員可以再次討論，或者進行第二次/第三次嘗試，直到你們做對為止。

註意：

1) 當你試了兩次後答對了，右邊的分數記為"嘗試了2次，得到了3分"（滿分4分/項）；

2) 當你試了三次後答對了，右邊的分數記為"嘗試了3次，得到了2分"（滿分4分/項）；；

3) 當你試了四次後答對了，右邊的分數記為"嘗試了4次，得到了0分"（滿分4分/項）；

(小組討論 ➝ 第一次嘗試 ➝ "笑臉" ➝ 得到4分)

(小組討論 ➝ 第一次嘗試 ➝ "再試一次" ➝ 再次小組討論
➝ 第二次嘗試 ➝ "笑臉" ➝ 得到3分)

(小組討論 ➝ 第一次嘗試 ➝ "再試一次" ➝ 再次小組討論
➝ 第二次嘗試 ➝ "再試一次" ➝ 再次小組討論 ➝
➝ 第三次嘗試 ➝ "笑臉" ➝ 得到2分)

(小組討論 ➝ 第一次嘗試 ➝ "再試一次" ➝ 再次小組討論
➝ 第二次嘗試 ➝ "再試一次" ➝ 再次小組討論 ➝
第三次嘗試 ➝ "再試一次" ➝ 由于只剩最后一个选项 (即正确选项，笑脸) 故不得分

4) TEA 計分機製

共 5 道題（每道題滿分 4 分）。顯示"再試一次"時，扣 1 分。滿分最高 20 分。

然後你可以把每道題的得分加起來，這是你小組的最後分數。

	A	B	C	D	Score
Q1	TEA	TEA	TEA	😊	Try: 1 Score: 4
Q2	TRY AGAIN	😊	TRY AGAIN	TRY AGAIN	Try: 4 Score: 0
Q3	TEA	TRY AGAIN	😊	TRY AGAIN	Try: 3 Score: 2
Q4	TEA	TEA	TRY AGAIN	😊	Try: 2 Score: 3
Q5	😊	TEA	TEA	TEA	Try: 1 Score: 4

算分機製實例

總得分:

$Q_1 + Q_2 + Q_3 + Q_4 + Q_5 = 4+0+2+3+4 = 13$ (13 out of 20)

你的成績為：$\frac{13}{20} \times 100\% = 65\%$

5) *提交TEA*

點擊下方按鈕即可提交並獲得總成績

Calculate & Submit

TEA-IFT 2019-2023 © Dr. YANG Lan and Mr. GAO Fengzhan, The Education University of Hong Kong

點擊此按鈕以提交
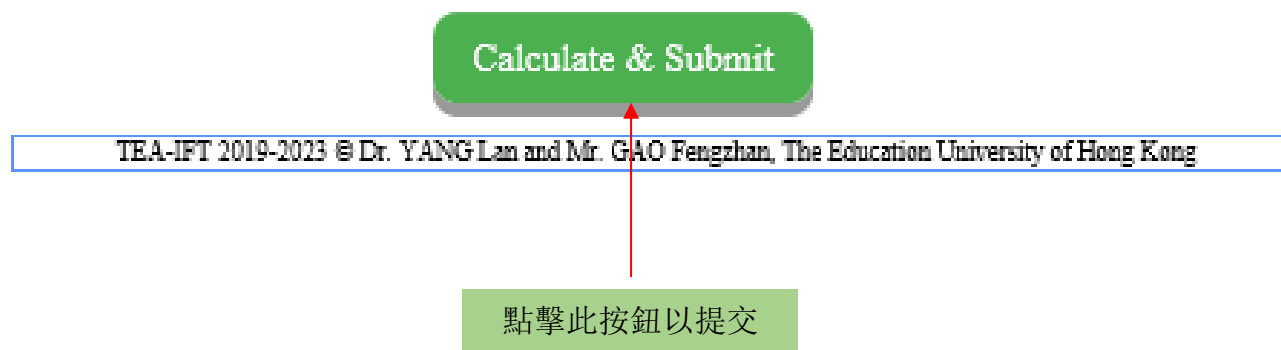
Warm reminder: Please double check your basic information and answers before you submit.

友情提示：在提交之前請確認你們小組的基本資訊填寫無誤，比如課程編號，教師選擇，第幾次課，第幾組，組長

結果解釋

1) TEA 成績以及回饋

Thanks for your team effort in this team-based online assessment practice (TEA-IF).

You have achieved 65.00% out of 100%. Practices make productivity of teamwork.

Go for achieving higher team-based outcomes in the coming TEA time ☺

CLOSE/LEAVE CLOSE/LEAVE

小組成績

熟能生巧，請保持積極的小組練習！

完成 TEA 後，點擊此處或直接關閉流覽器就可離開

支援服務

如果您需要任何支持，請隨時與我們聯系：

	郵箱
楊蘭博士 （項目首席研究員；TEA 設計以及研發人）	yanglan@eduhk.hk
高鳳展先生 （ TEA 協助研發人員）	fzgao@eduhk.hk

注： 所有可視化的評估結果僅用於所使用學科的教與學目的。未經 A+BLe 首席研究員楊蘭博士以及你們的任課老師同意，請勿將視覺化結果以任何方式發送給他人。

A+BLe -- Team-based E-Assessment

Designed by **Dr. Yang Lan** (including the TEA logo)

Department of Curriculum and Instruction
The Education University of Hong Kong

User Guide

Student Version

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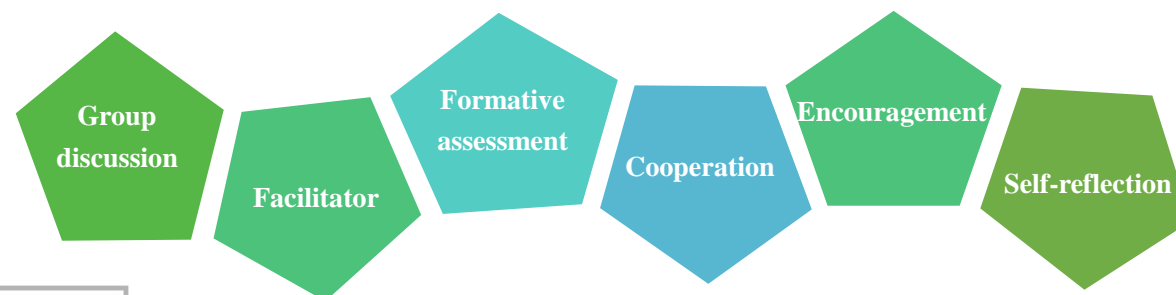TEA-IFT 2019-2023 © Dr. YANG Lan and Mr. GAO Fengzhan, The Education University of Hong Kong

Introduction

1) About the project

The A+BLe project is supported by Teaching Development Grant to Dr. Yang Lan (as the Principal Investigator) and Prof. Lim Cher Ping (as co-PI). They are working at Department of Curriculum and Instruction, The Education University of Hong Kong. It is a system that contains a set of assessment tools and easily implementable via browser. A+BLe combined a set of assessment tools that aim to cultivate students' awareness of using assessment as an opportunity to enhance their learning. We expect to foster the process of *Assessment for Learning* and *Assessment as Learning* via multiple rounds of A+BLe implementation, which enriched teaching and learning activities via embedded self-assessment, peer feedback, teacher assessment, visualized feedback, and so forth. You may click the hyperlink for more details about A+BLe project co-investigators.

Group discussion

Facilitator

Formative assessment

Cooperation

Encouragement

Self-reflection

2) About Team-based E-assessment (TEA-IFT)

TEA-IFT is an online formative assessment tool that focuses on providing immediate feedback. The key purpose of this online assessment tool is to promote your team cooperation, which has the function of encouragement (i.e., smile face; try again). Meanwhile, TEA-IFT has an effective goal-oriented function, which allows your team to explore and try many times until your team finds the answer, thus encouraging your team to actively participate and self-reflect in the process of formative assessment. Please be noted that we designed two versions of TEA-IFT, for instance, 5 sessions for the 5-item template and 5 sessions for the 10-item template. All your information and responses will be kept strictly confidential. The features of TEA-IFT are listed below.

（**Take 10-item as an example**）

http://csenie.ied.edu.hk/teaift/session4-5

http://csenie.ied.edu.hk/teaift/session4-10

Five steps of TEA-IFT

1) Fill in the basic information

Please type in the course code here. (e.g., GEH1021) when doing the TEA.

Team-based E-Assessment and Immediate Feedback Technique (TEA-IFT)

Please choose which semester you at when doing the TEA

Please choose or type in the course lecturers' name here (e.g., Yang Lan Joy)

Result check (only for Lecturer)

Semester: [2020/2021 SEM II ∨] Course code: [_____] Lecturer: [Please select ▾]

Lesson/Session: [Please Select ∨] Team No.: [Please Select ∨] Team facilitator(s): [_____]

Please choose which lesson you were having in that semester when doing the TEA.

Please type the name of team facilitator when doing the TEA.

Please type your team number when doing the TEA.

2) Answer the multiple-choice questions

In this part of TEA time, the team facilitator will answer those 10 items.

Please choose the correct answers based on the work sheet.

Procedure guidance

1. Answer 10 multiple-choice questions in the team, and guided by your team facilitator.

2. When you are answering the MCQ in a team.
    😊 =right
    ❌ =wrong

The less you try, the higher score you will have!

3) *Formative guidance*

Formative Guidance

When you select the right answer at a time, there will be a positive sign of "**Smiling Face** 😊", the score on the right recorded as try 1 time, 4 scores (full score of 4 per item);

When you select wrong for the first time, there will be an encouraging sign of "**TRY AGAIN** 🔴". At this point, you and your team members can discuss it again or make a second/third attempt until you get it right.

Note：When you try twice and answer correctly, the score on the right is recorded as try twice, 3 scores (full score of 4 per item);

When you answer correctly after three attempts, the score on the right is recorded as try three times, 1 score (full score of 4 per item);

When the current three times are not correct, the score on the right is recorded as try four times, 0 score (full score 4 per item).

(Group discussion ➝ Try the first time ➝ "**Smiling Face**" ➝ 4 scores)

(Group discussion ➝ Try the first time ➝ "**Try Again**" ➝ Group discussion ➝ Try twice ➝ "**Smiling Face**" ➝ 3 scores)

(Group discussion ➝Try the first time ➝ "**Try Again**" ➝ Group discussion ➝ Try twice ➝ "**Try Again**" ➝ Group discussion ➝ Try third ➝ ➝ "**Smiling Face**" ➝ 2 scores)

(Group discussion ➝Try the first time ➝ "**Try Again**"➝ Group discussion ➝ Try twice ➝ "**Try Again**" ➝ Group discussion➝ Try third ➝ "**Try Again**"➝ The last one is the correct answer (**Smiling Face**) ➝ 0 score)

4) Score calculation method

There is 10 item in total (full score of 4 per item). When the "**TRY AGAIN**" was prompted, the scores will be deducted 1 point. The maximum full score is 40.

Then you can add up all the scores of each item, which are the final scores of your team.

Score calculation method (For example)

Performance total score:

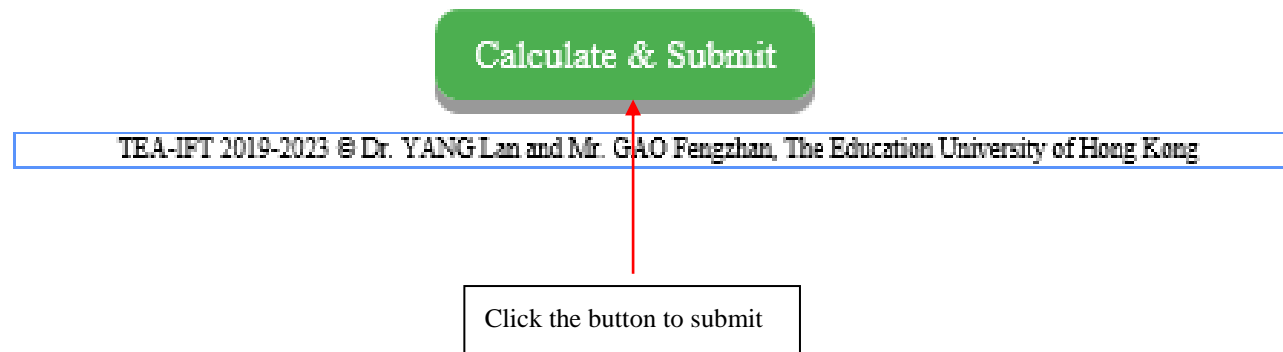$Q_1 + Q_2 + Q_3 + ... + Q_{10} = 4+3+4+...+4 = 33$ (33 out of 40)

The accuracy rate：$\dfrac{33}{40} \times 100\% = 82.50\%$

5) *Submit the answers*

Submit your answers after you calculated the score.

Calculate & Submit

TEA-IFT 2019-2023 © Dr. YANG Lan and Mr. GAO Fengzhan, The Education University of Hong Kong

Click the button to submit

Warm reminder: Please double check your basic information and answers before you submit.

TEA-IFT result explanation

1) Team result

Your team grade

Thanks for your team effort in this team-based online assessment practice (TEA-IF).

You have achieved **82.50%** out of 100%. Practices make productivity of teamwork.

Go for achieving higher team-based outcomes in the coming TEA time ☺

Well done!
Keep on going!

CLOSE/LEAVE CLOSE/LEAVE

You can click this button to leave.
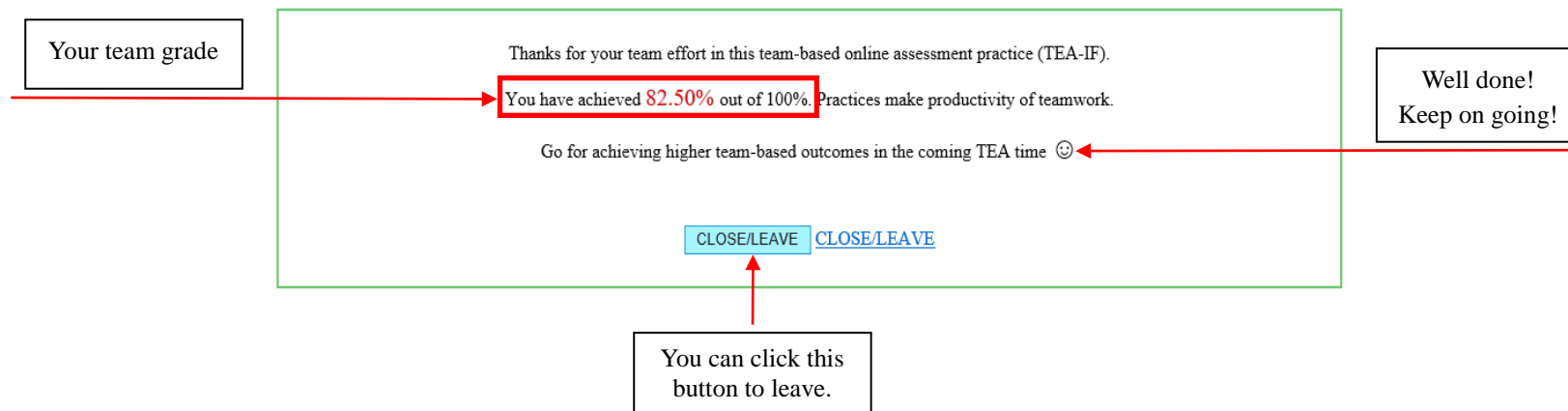
2) Double check the answer

Here attached your team answer for your reference, you can know which questions have been answered in the previous section and which questions need to be improved.

	A	B	C	D	Score
Q1	TEA	TEA	😊	TEA	Try: 1 Score: 4
Q2	😊	TRY AGAIN	TEA	TEA	Try: 2 Score: 3
Q3	TEA	TEA	😊	TEA	Try: 1 Score: 4
Q4	TEA	😊	TRY AGAIN	TRY AGAIN	Try: 3 Score: 2
Q5	TEA	TEA	😊	TEA	Try: 1 Score: 4
Q6	TEA	😊	TEA	TEA	Try: 1 Score: 4
Q7	TRY AGAIN	TRY AGAIN	TRY AGAIN	😊	Try: 4 Score: 0
Q8	TEA	TEA	😊	TEA	Try: 1 Score: 4
Q9	TEA	TEA	😊	TEA	Try: 1 Score: 4
Q10	TEA	😊	TEA	TEA	Try: 1 Score: 4

Support

If you need any support, please feel free to contact us:

Team members	Email
Dr. YANG Lan	yanglan@eduhk.hk
GAO Fengzhan	fzgao@eduhk.hk

A+BLe -- **T**eam-based **E-A**ssessment **(TEA)**

Designed by **Dr. Yang Lan** (including the TEA logo)

Department of Curriculum and Instruction
The Education University of Hong Kong

User Guide

Teacher Version

A+Ble -- Team-based E-assessment

Contents

Introduction

About Team-based E-assessment (TEA)

Team-based E-Assessment (TEA) is the tool that aims to facilitate the intensive peer discussion and consolidate their understanding of course material. It is not only about how to answer all the questions right, but also how a team can answer the questions and know "why".

- Formative assessment

- Immediate corrective feedback

- 10 sessions for the version with 5 MCQs

- **5 sessions for** the version with 10 MCQs

- （The below instruction will take the version with

10 MCQs as an example）

Five steps of TEA

1) Click the result check button

Procedure guidance

1. Before checking the team results, the teacher will set a **TEA TIME** (i.e., 15-20 minutes) for students.

2. After the TEA TIME, the teacher can check the team results (i.e., **TRY AGAIN**) and provide immediate feedback for students.

   😀 =right

   🩸 =wrong

3. Teacher can invite other well-complement groups/teams to share ideas between groups, such as 100% correct groups, to promote **PEER FEEDBACK**.

Team-based E-Assessment and Immediate Feedback Technique (TEA-IFT)

Result check (only for Lecturer)

Please click this button to check TEA results (Only for lecturer)

Semester: 2020/2021 SEM II ⌄ Lecturer: Please select ⌄ Course code: [____]

Lesson/Session: Please Select ⌄ Team No.: Please Select ⌄ Team facilitator(s): [____]

	A	B	C	D	Score
Q1	TEA	TEA	TEA	TEA	Try: 0 / Score: 0
Q2	TEA	TEA	TEA	TEA	Try: 0 / Score: 0
Q3	TEA	TEA	TEA	TEA	Try: 0 / Score: 0
Q4	TEA	TEA	TEA	TEA	Try: 0 / Score: 0
Q5	TEA	TEA	TEA	TEA	Try: 0 / Score: 0

2) Fill in the basic information

Please choose which semester you at when doing the TEA

Please type in the course code here. (e.g., GEH1021) when doing the TEA.

Team-based E-Assessment and Immediate Feedback Technique (TEA-IFT)

Semester: 2020/2021 SEM II ⌄   Course code: [   ]

Lesson/Session: Please Select ⌄   Teacher Code: [   ]

Check   Reload

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Please choose which lesson you were having in that semester when doing the TEA.

Please type your Teacher Code when doing the TEA.

Please click the "Check" button to enter in the team results interface.

Please click this button to "Reload" the current page.

3) Check the results of team performance

Group/Team 6. Submitted time 2021-01-13 13:06:51 performance total score: 40 out of 40 (100.00%) correct

The group/team information (e.g., submitted time, performance total score 40 out of 40) correct.

When the group/team got **100% correct**, the group members will be invited to have a **PEER FEEDBACK** between groups.

Group/Team 5. Submitted time 2021-01-13 13:03:27 performance total score: **34 out of 40** (85.00%) correct

The group/team information
(e.g., submitted time, performance total score
34 out of 40) correct.

When the group/team got **poor grades** (below the average level), the group/team will need **PEER FEEDBACK** immediately.

4) Invite well-performing teams to provide PEER FEEDBACK

PEER FEEDBACK in this section aims to promote group/team members to conduct self-reflection and self-evaluation. Besides, **PEER FEEDBACK** can facilitate group/team members who are below average level to find improved methods and suggestions.

5) TEACHER FEEDBACK

TEACHER FEEDBACK aims to guide the group/team and provide concrete feedback immediately during/after **PEER FEEDBACK**.

THE END

Support

If you need any support, please feel free to contact us:

Team members	Email
Dr. YANG Lan	yanglan@eduhk.hk
GAO Fengzhan	fzgao@eduhk.hk