

A Capstone Project entitled

“Enhancing Athletic Meet Event Management: An Online Platform for Teachers to Learn Professional Rules and Management Skills”

Submitted by

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Introduction

Athletic meet is a common event in both primary and secondary school. This school event relies on all of the non-PE major teachers to take the referee role and assist the event to be held smoothly. According to the EDB (2023), this report states that all athletic meet helpers which include the students or the teacher must be properly trained before the athletics meet. However, those teachers are more likely to have less related knowledge and safety concerns towards the athletic meet events. Before the athletic meet, the PE teacher probably gives them a briefing session or the school based guidance for guiding them how to conduct the event. This kind of information may be presented briefly or too quickly.

Apart from that, there are some paper instructions about the track and field event, such as the guidelines on outdoor activities from EDB (2023). This document focuses on administrative work and the information is too heavy rather than how to manage the event or the referee working procedure. Therefore, in the PE industry, there is a lack of the public resources to provide the non-PE major teacher with athletic meet referee related knowledge video.

According to the Breimer, Conway, Cotler, & Yoder (2011), they indicated that video-instructions have a more positive impression compared with text-instructions. Therefore, this project would like to develop the knowledge and information by video-instructions. Also, those videos would be put in the online e-learning platform for display. Khan (2005) reported that e-learning platforms are effective for receiving new knowledge and the effectiveness is resulting positively. For these and other reasons, I would like to create an online athletic meet referee related knowledge video information platform for the non-PE major teacher as a reference.

Abstract

Background: Athletic meet is an important event in both primary and secondary school. Generally, the PE teacher assigns some of the referee position to other non-PE subjects teachers. However, most of these teachers lack knowledge related to track and field officiating. Although there are some written instructions on managing referee duties, these do not specifically address athletic meets and the content is often too complex and difficult to understand. There appears to be a lack of a structured video introduction on online platforms designed to assist teachers in conducting athletic meets in schools.

Aim: To create an online-platform which provides videos for in-service teachers , sharing ideas on how to organize and manage all of the track and field events in school athletic meets and basic rules in each event. These resources are provided with essential information that is easy to understand.

Method: This online platform will benefit all school teachers. The capstone project is divided into five stages: i) Information collection, ii) Information analysis, iii) Video production, iv) Online platform construction, and v) Amendment.

Conclusion: This online platform provides videos with professional knowledge of track and field rules and shares ideas on organizing each event. It gives in-service teachers a basic understanding of managing referee positions during athletic meets. This resource enhances the fluency of conducting athletic meets and reduces safety issues.

Keywords: Athletic Meet, Online Platform, Track and Field

Methodology

Project Outcome ([Click](#)) :

This platform mainly includes three different learning areas :1) track event, 2) field event and 3) reference resources.

As for the track event, it covers most of the referee positions needed for running events which include the start team, track umpire, finish judge and lab scorer. Each referee position item includes the basic knowledge and the tailor-made information to cater each unique referee characteristics.

As for the field event, it covers most of the referee positions needed for throwing and jumping events which include high jump, long jump, triple jump, shot put, discus throw and javelin throw. Each referee position item includes the suggestion for the event process, the safety guidelines, measuring method, common mistakes and the tailor-made information to cater each unique referee characteristics.

The above information was delivered by video which was uploaded to Youtube and placed into this learning website.

As for the reference resources, it covers most of the official documents from EDB, HKSSF and HKAAA. Those documents content surround the athletic meet information, safety guidance and the track and field referee handbook. Above official documents were integrated in this learning website by the official website link.

Research design :

To ensure the effectiveness of this website, pretest and posttest were conducted and both of the tests were interviewed by more than 30 in-services PE teachers via questionnaire.

Pretest ([Click](#)):

Before starting the project, the pretest can ensure this project idea matches up the need in the PE industry. There are some areas of concern that I would like to clarify in the questionnaire. First concern whether this project idea is valued and unique which can fill in the industry gap as well. The question 3 “ whether the current guidelines for teacher referees in the athletic meet are sufficient? ” and question 7 “do you want more relevant referee resources? ” can reply to the first concern. The second concern focuses on what kind of referee information and what delivery method they prefer. The question 8 “ what kind of information that you want to find on this platform? “ and question 9 “ what display information method that you prefer? “ can answer what are the needs which are required form the PE industry and ensure this product is user-friendly for the front line teacher.

Posttest([Click](#)):

After conducting the online platform, this posttest can measure the effectiveness of this product. There are some areas of outcome which I would like to measure the effectiveness of. The first area is about referee related knowledge. Question 3 “ this platform can enrich your track and field referee professional knowledge. ” focus on whether this platform can raise the related knowledge to the teacher referee. The second area related to the management and safety concern on the athletic meet. Question 4 “ this platform can enrich your track and field referee

management knowledge. ” and question 5 “ this platform helps you to develop a better fluency and safety track and field event. ” are related to the effectiveness of the second area. The last area focuses on the overall satisfaction toward this platform. Question 7 “ overall, you feel satisfactory on this platform. ” gives the answer to the last area of concern.

Planning:

This capstone project was divided into 5 stages: i) Information collection ii) Information analyze iii)Video production iV) online-platform construction and V)Amendment.

i) Information collection:

In this phase, It will collect information from PE teachers through questionnaires (pretest). Besides, check the athletic rules book from IAAF which can make sure the knowledge/information between the IAAF rules book and my platform is the same. It is important to ensure the information released from the platform is correct.

ii) Information analyze:

This phase focuses on integrating all of the information and analyzing how to present that information in the video. Preparing the rundown and script of the video are the duty in this phase.

iii)Video production:

Before the shooting, It will recruit some helper as the dummy and make sure the venue , equipment is suitable.

After the shooting, It will edit the video in this phase as well.

iV) Online-platform construction:

This phase aims to create an online platform. It will put all the videos and the documents on the platform. Besides, it will do the evaluation from the questionnaire (posttest).

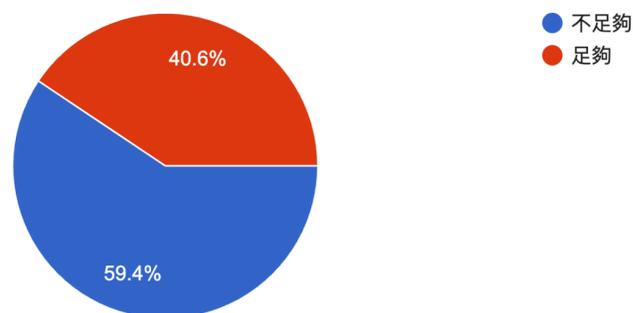
V)Amendment:

In the final stage, it will integrate all the feedback and do the final adjustments. For example, if there are some scenes with low quality or unclear presentation in the video, it will re-shooting in this phase.

Result of the Pretest questionnaire

3, 您認為現行的陸運會裁判指引對教師是否足夠？

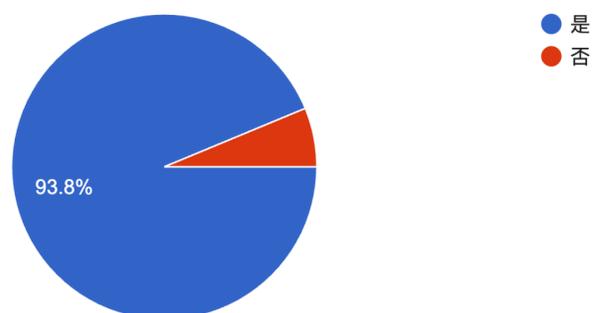
32 responses



(Figure 1)

7, 您是否希望擁有更多相關的教學資源？

32 responses

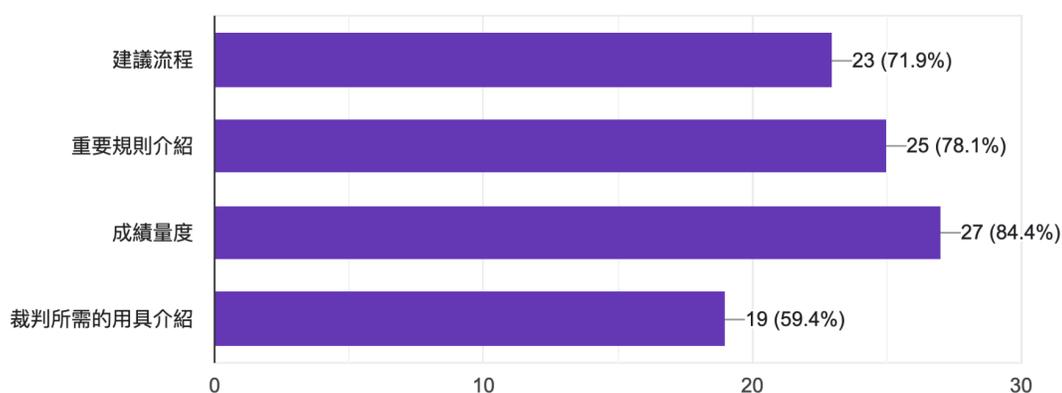


(Figure 2)

Figure 1 showed that around 60% of respondents agreed the current referee guidance of track and field related is not enough. Also, figure 2 showed over 90% of respondents hope to have more related referee resources. These two figures show that more than half of the respondents think the current resources are not enough and support the development of more relevant resources.

8, 您希望在此網上平台上看到哪些教學資源，以支援非主修體育的前線老師擔任裁判員？(可選多項)

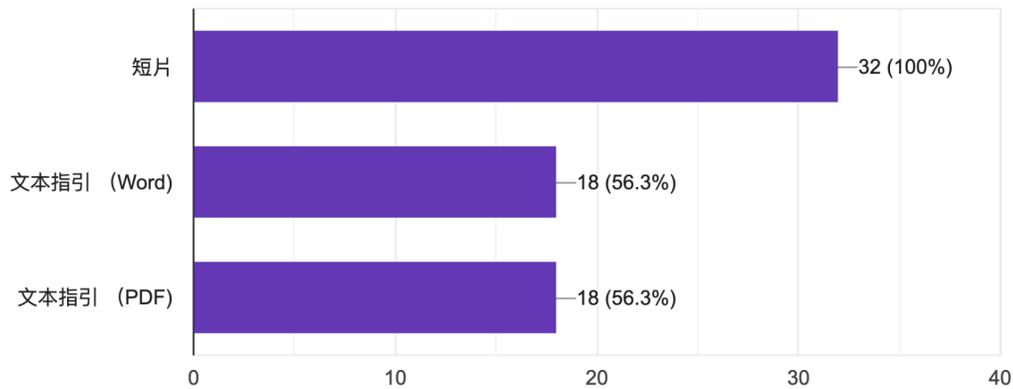
32 responses



(Figure 3)

9, 您希望此網上平台的資訊用什麼方式展示？(可選多項)

32 responses



(Figure 4)

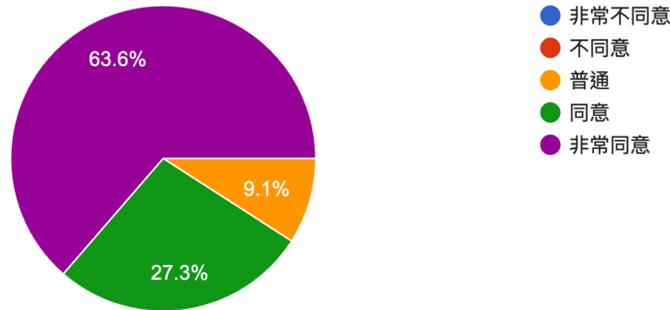
Figure 3 shows that over 80% of the respondents replied that they would like to have the measurement method resource in this platform, the second most choice is the important rules introduction which is voted by around 80%. Figure 9 responded that all of the respondents would like to receive the information by video. These two figures showed what kind of information that the PE industry needed and the teacher preferred to receive the information by video.

After analyzing the result of the pretest, this project can focus on the true need in the PE industry and can fill the gap accurately.

Feedback from the posttest questionnaire

3、此平台能為您提升作為田徑裁判的專業知識。

33 responses

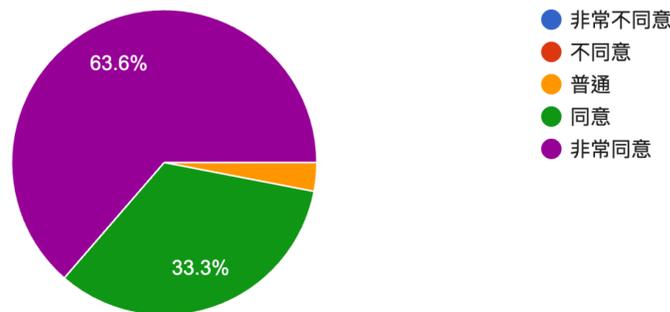


(Figure 5)

Figure 5 shows that over 90% of respondents agreed that this platform can enhance their track and field referee professional knowledge.

4、此平台令您了解作為田徑裁判的管理工作。

33 responses

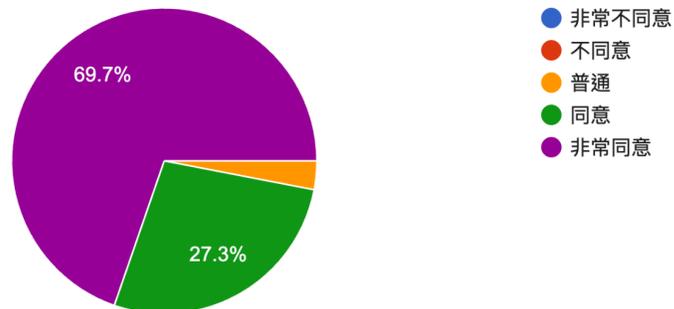


(Figure 6)

In figure 4, over 90% of the respondents stated that they can understand the referee management duty after visiting this platform.

5、此平台令您更流暢及安全地完成裁判工作

33 responses

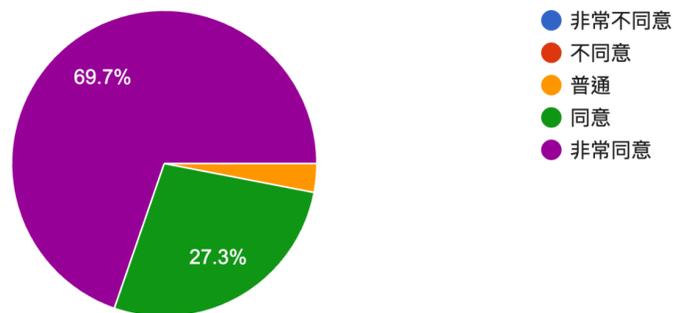


(Figure 7)

In figure 7, over 95% of the respondents agreed that this platform can help them to develop a better fluency and safety track and field event management.

7、總結而言，您很滿意此網上平台。

33 responses



(Figure 8)

Figure 8 shows that over 95% of respondents feel satisfaction towards this platform overall.

Ways to improve

Based on the feedback from the questionnaire, some of the respondents mentioned that they would like to receive the information not only by the video, but also the text format. As in the real life situation, when they conduct the competition, it is hard to watch the video again to find out the solution immediately. Therefore, it is better to include the same information but summary by text format in this platform. Text document can let the teacher referee to find out the solution immediately. If this platform provides both video and text documents about the track and field referee knowledge, it could cater diversity needs from the PE industry.

The second way can be improved is about the information item. According to Ip (2024), this report indicated that the call room judge is part of the track and field referee position as well. However, this position item is not mentioned in this platform. The call room judge is also a very important position in the athletic meet. It probably affects the fluency of the track event and the student athletic line up arrangement. Therefore, it is better to include the call room judge item in this event.

The third improvement could be adding the solution of simultaneous entries issue. It is common that one athlete applies to two or above different events in the track and field competition. Also, the event they applied could happen at the same time. For this situation, the teacher referee may not have the correct knowledge to help the student athlete to solve the problem or some incorrect information would be delivered. Therefore, if this platform can include the solution of the simultaneous entries issue will be appreciated.

Last but not least, this platform mainly focuses on secondary school athletic meet events. However, there is one item that is included in primary school but not the secondary school which is softball throw. Although the rules and the flow of the softball throw is similar to the javelin throw, softball still has little difference with the javelin throw. Therefore, if this platform can include the softball throw event, it could also cater the needs from the primary school athletic meet.

Conclusion

To conclude, this track and field online platform plays high value in the PE industry. There is no systematic video platform for non-PE major subject teachers to cater their referee position needs in Hong Kong. Overall, this platform can enhance the athletic meet conducted with fluency and decrease the safety issue.

References

葉祐淳 (2024)。〈2024-2025年度 市區中學田徑裁判工作研習班內容摘要〉。《中國香港學界體育聯會》。取自

chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/http://www.hkssf-hk.org.hk/hk/sec/events/athletics/circulars/20241019%20ath_workshop%20notes_revised.pdf

Breimer, E., Conway, M., Cotler, J., & Yoder, R. (2011). A study of video-based versus text-based labs for a management information systems course. *Proceedings of the 16th Annual Joint Conference on Innovation and Technology in Computer Science Education*, 128–132. <https://doi.org/10.1145/1999747.1999785>

Education Bureau. (2023, May). Safety Guidelines on Physical Education Key Learning Area for Hong Kong.

https://www.edb.gov.hk/attachment/en/curriculum-development/kla/pe/references_resource/safety-guidelines/Safe_e.pdf

Education Bureau. (2023, May). Guidelines on outdoor activities.

https://www.edb.gov.hk/attachment/en/sch-admin/admin/about-activities/sch-activities-guidelines/Outdoor_EN.pdf

Khan, B. (2005). *Managing E-Learning Strategies: Design, Delivery, Implementation and Evaluation* (1st ed.). Idea Group, Inc. <https://doi.org/10.4018/978-1-59140-634-1>

Appendix 1

Link : <https://forms.gle/auwcHiTYjBX2arNDA>

《陸運會網上資源平台-教師裁判》 意見 收集

誠邀閣下參與由香港教育大學健康與體育學系學生 吳洛維同學負責的畢業專題研究。

本人正在設計一個網上平台，旨在為非主修體育的前線教師提供在陸運會擔任裁判員時的教學資源。這個平台將包含各項陸運會項目的教學影片和文本指引，讓您在舉辦陸運會時擁有更多參考資料。

為了確保這個平台能夠真正符合您的需求，我們誠摯地邀請您花費大約10分鐘的時間填寫我們的問卷調查。您的意見將對我們完善和改進這個平台至關重要。

問卷以不記名形式進行，閣下不會面對任何潛在風險，您的參與純屬自願性質，所收集的數據會於畢業匯報展示。

如有任何疑問，歡迎聯絡香港教育大學健康與體育學系體育系 吳洛維同學（電話：6897 1843）或香港教育大學健康與體育學系高級講師 陳靖逸先生（電話：2948 6812）以作查詢。

感謝您的寶貴時間和支持！

1. 1, 您的教學年資?

Mark only one oval.

- 1-5 年
- 6-10 年
- 11-15 年
- 16-20 年
- 21-25 年
- 26-30 年
- 30 或以上

2. 2, 您有沒有負責統籌陸運會的經驗?

Mark only one oval.

- 有
- 沒有

3. 3, 您認為現行的陸運會裁判指引對教師是否足夠？

Mark only one oval.

不足夠

足夠

4. 4, 您在籌備陸運會時會參考那些資源？(可選多項)

Check all that apply.

校本指引

香港學校體育學習領域安全指引(教育局)

中學田徑裁判工作研習班內容摘要(香港學界體育聯會)

Other: _____

5. 5, 您認為現行提供給教師的陸運會裁判指引是否明確？

Mark only one oval.

是

否

6. 6, 如上題選擇「否」，請填寫原因

7. 7, 您是否希望擁有更多相關的教學資源？

Mark only one oval.

是

否

8. 8, 您希望在此網上平台上看到**哪些教學資源**，以支援非主修體育的前線老師擔任裁判員？(可選多項)

Check all that apply.

- 建議流程
- 重要規則介紹
- 成績量度
- 裁判所需的用具介紹
- Other: _____

9. 9, 您希望此網上平台的資訊用什麼方式展示？(可選多項)

Check all that apply.

- 短片
- 文本指引 (Word)
- 文本指引 (PDF)
- Other: _____

10. 10, 請提供一些陸運會中的常見錯誤。(可選多項)

Check all that apply.

- 接力棒區中的交接判斷
- 起跑程序
- 田項成績量度方法
- Other: _____

11. 11, 其他建議

Appendix 2

Link : <https://forms.gle/fwQd8SuViFJs8S1u8>

《陸運會網上資源平台-教師裁判》 意見 問卷調查

誠邀閣下參與由香港教育大學健康與體育學系學生 吳洛維同學負責的畢業專題研究。

這個網上平台，旨在為非主修體育的前線教師提供在陸運會擔任裁判員時的教學資源。此平台將包含各項陸運會項目的教學影片和文本指引，讓您在舉辦陸運會時擁有更多參考資料。

此問卷希望可以收集教師使用該平台後的意見，我們誠摯地邀請您花費大約10分鐘的時間填寫我們的問卷調查。您的意見將對我們完善和改進這個平台至關重要。

問卷以不記名形式進行，閣下不會面對任何潛在風險，您的參與純屬自願性質，所收集的數據會於畢業匯報展示。

如有任何疑問，歡迎聯絡香港教育大學健康與體育學系體育系 吳洛維同學（電話：6897 1843）或香港教育大學健康與體育學系高級講師 陳靖逸先生（電話：2948 6812）以作查詢。

感謝您的寶貴時間和支持！

* Indicates required question

各位教師您好，

請您透過以下連結訪問我們的網上平台，並進行瀏覽。在您完成使用後，期待您能分享寶貴的使用意見，以幫助我們不斷改進平台。非常感謝您的參與！

[《陸運會網上資源平台-教師裁判》](#)

1. 1、此平台的界面和導航容易使用。 *

Mark only one oval.

- 非常不同意
- 不同意
- 普通
- 同意
- 非常同意

2. 2、此平台提供充足的田徑裁判教學影片。*

Mark only one oval.

- 非常不同意
- 不同意
- 普通
- 同意
- 非常同意

3. 3、此平台能為您提升作為田徑裁判的專業知識。*

Mark only one oval.

- 非常不同意
- 不同意
- 普通
- 同意
- 非常同意

4. 4、此平台令您了解作為田徑裁判的管理工作。*

Mark only one oval.

- 非常不同意
- 不同意
- 普通
- 同意
- 非常同意

5. 5、此平台令您更**流暢及安全**地完成裁判工作 *

Mark only one oval.

- 非常不同意
- 不同意
- 普通
- 同意
- 非常同意

6. 6、此平台對您在陸運會中擔任裁判的工作有**正面的幫助**。 *

Mark only one oval.

- 非常不同意
- 不同意
- 普通
- 同意
- 非常同意

7. 7、總結而言，您很滿意此網上平台。 *

Mark only one oval.

- 非常不同意
- 不同意
- 普通
- 同意
- 非常同意

8. 8、對此平台意見 / 建議。

Appendix 3

同意書

「陸運會網上資源平台」研究

研究目的

香港教育大學健康與體育學系，體育教育榮譽學士五年級學生現正進行一項關於正在設計一個網上平台，旨在為非主修體育的前線老師提供在陸運會擔任裁判員時的教學資源。這個平台將包含各項陸運會項目的教學影片。

研究程序

是項研究會邀請大約十六歲的中學學童。他們會在運動場協助研究人員製作相關影片，並可能需要作出一些田徑專項的運動動作。整個項目為2天，每次進行2小時。項目內的所有活動會由專業研究團隊負責，並且不會收取任何費用。

研究地點

研究地點分為：田徑影片拍攝活動會於斧山道運動場或巴富街運動場進行。

潛在風險

此研究並沒有其他潛在風險。在進行田徑影片拍攝期間，如參加者感到疲倦，研究人員會提供食水。

研究裨益

參加者可以從中了解自己的田徑活動知識及認知能力。你們的參與，將對於學校陸運會的運行有極大的貢獻。本研究結果將會在2024/25年度體育教育榮譽學士畢業論文及本人所屬的教學網站公佈。

個人私隱

在研究過程中所收集的資料，只供作研究用途，個人資料將絕對保密。所有資料(包括個人及學校資料)將以代碼記錄及研究，以保障閣下的私隱。資料將會存放於研究員的辦公室，並鎖於櫃內，只有有關研究隊伍才可接觸該資料。你可隨時要求檢視錄影記錄，而我們可應你的要求刪除錄影記錄資料。

參與及退出

參與純屬自願性質，參與與否將不會對閣下之學業成績構成任何影響。閣下可隨時提出終止，有關決定將不會引致任何不良後果。

疑問

如閣下想獲得更多有關這項研究的資料，請與首席研究員吳洛維同學聯絡(電話：)，請閣下填妥以下回條，以表示是否同意參與是項研究。如對是項研究有任何疑問，請現在提出。如日後對是項研究有任何查詢，敬請聯絡首席研究員吳洛維同學(電話： 電郵：)。如閣下或貴子女對這項研究的操守有任何意見，可隨時與香港教育大學人類實驗對象操守委員會聯絡(電郵： hrec@eduhk.hk; 地址：香港教育大學研究與發展事務處。在此多謝你的參與。

家長回條

本人 _____ (家長姓名) 已有足夠機會詢問清楚明白有關這項研究的內容，並同意參加這項研究。

此外，本人亦 ** 同意 / 不同意 本人之兒女參與是項研究。[** 請刪去不適用者]

家長聯絡電話

日期

家長姓名

家長簽署

學生回條

REPLY SLIP (STUDENT)

本人 _____ (學生姓名) 已有足夠機會詢問清楚明白有關這項研究的內容，並同意參加這項研究。

I _____ (Name of student) have been given the opportunity to ask questions about this study and they have been answered to my satisfaction. I understand the procedures described above and agree to participate in this study.

學生姓名 Name of student

學生簽署 Signature of student