提升學生在獨立專題探究報告的分析及論證能力



Independent Enquiry Study

Independent Enquiry Study (IES) has the session to stage of the session of the se

A total of 488 schools participated in IES this year. The Process mark of IES was not moderated. Data on the moderated Task mark shows that 62.2% of schools fell into the 'within the expected range' category, with 17.2% of schools giving marks higher than expected and 20.6% giving marks lower than expected. However, among the schools with marks higher or lower than expected, the majority only deviated slightly from the expected range. The proportion of schools in the 'within the expected range' category remains about the same as that in 2015.

As in previous years a seminar was held to brief teachers on the general performance of IES in the 2015 examination to enhance their understanding of the requirements of IES. In the seminar, the Structured Enquiry Approach and the corresponding marking guidelines, which are applicable to the 2017 Examination and beyond, were explained. The IES Supervisor and District Coordinators shared some strategies to help students of various abilities to conduct the IES. District Coordinators held group meetings with School Coordinators to share their experience of using various teaching tools to facilitate the conduct of IES. In addition, annotated exemplars of Products and samples illustrating various levels of performance were uploaded to the HKEAA websites http://www.hkeaa.edu.hk/en/hkdse/assessment/. Teachers and students may refer to these samples to gain a better understanding of the requirements and marking standard of IES.

Below, we comment on students' Process performance and their Task performance in the Product Stage.

Performance in Process

District Coordinators have continued to liaise with schools in order to understand how they help students to complete their Tasks with school-based Process assessment activities, such as mind-maps and group discussions on formulating the enquiry question. After reviewing the Process marks submitted by schools, a small number of schools were found to have awarded narrow mark ranges, an issue which also arose last year. For these cases, District Coordinators reviewed the assessment documents and discussed methods of improvement with the School Coordinators.

Task Performance in Product Stage

A prerequisite for producing a good Task is having an enquiry topic with a clear focus and an appropriate level of difficulty. This year, the proportion of student's tasks achieving this prerequisite continued to be high. This reflects that teachers and students had a good understanding of the learning objectives of IES, and as a result were able to formulate feasible topics worthy of enquiry. However, some Products were undermined by being too wide in scope or having unclear focus questions. This situation should be brought to the attention of students.

With regard to the tools for data collection, many students used a variety of tools and there was an improvement in the situation of over-relying on questionnaire surveys. When conducting questionnaire surveys, students should pay attention to the relevancy and reference value of their survey targets. When conducting online surveys, they must consider the characteristics of Internet users and the limitations of the sampling process. The number of students using second-hand data for analysis keeps increasing. Students are reminded to

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With regard to the tools for data collection, many students used a variety of tools and there was an improvement in the situation of over-relying on questionnaire surveys. When conducting questionnaire surveys, students should now attention to the relevancy and reference value of their survey targets. When conducting online surveys, they must consider the characteristics of Internet users and the limitations of the sampling process. The number of students using second-nand data for analysis keeps increasing. Students are reminded to acknowledge the sources of their data. They should also understand how to respond to different focus questions with data from different perspectives and views. In most cases, students who were able to make good use of the hypothesis for enquiry and expected enquiry findings effectively selected appropriate data for analysis.

透過學與教可進一步 提升的空間



將IES製作過 程增潤為 課堂學習 題目範圍及 探究模式可 更多元化



善用機構的 統計數據/ 研究報告



可加強探究的線性邏輯關係



2. 獨立專題探究評核架構及要求

Four Steps in Conducting IES

引起探 **究動機**

Step 1

Problem Definition

題目界定

R

Step 2

Relevant Concepts and Knowledge/
Facts/ Data

相關概念和知識/事實/

尋找背 景資料

Step 3

In-depth Explanation of the Issue

深入解釋議題

Step 4

Judgement and Justification

掌握不同 意見或爭 議的焦點

D

判斷及論證

論證多 角度的 想法

AB x 3

CD x 5

POx1

獨立專題探究報告的評分指引

表現水平 (分数)#	題目界定和概念/知識辨識 (比重:3)	解釋和論證 (比重:5)	表達與組織* (比重:1)	自發性 (比重:1)
表現卓越 (7 - 9 分)	 訂立及清楚闡釋探究焦點及清楚闡釋探究(例如於 探究方資料與原的表達機類的表達機類的實際性數學性的所謂及極具相關性的與不可能與可如何應用在該探究上 	 應用非常有用的資料 把分析、論證及資料的相關性緊密地連繫起來 就極具相關性的概念及知識/事實/最新資料,清楚指出並明確及合乎邏輯地解看法/分歧/議題隱含的價值觀 就極具相關性的概念及知識/事實/最新資料,全面及合乎邏輯地論證其立場/選擇/決定,展示高水平的邏輯地理及多角度思維力能提供與議題及探究問題相關且具洞察力的意見/觀點,並輔以有力的論據 從不同角度作全面分析,以回應議題及探究問題 	 以建實和一致的結構, 構意 有效使用資料(例如以與片、圖、資料) 排萃和資料 清楚和準確註明資料 料來源 	 在整個探究顯看 中主動物學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學
表現滿意 (4 - 6 分)	 嘗試探究」 「實」 「實」 「實」 「與一個人工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工	 運用尚算有用的資料,但或資料份量不足,也或沒有清晰地把資料與分析及論證整點來 簡單解釋因素/影響/關係/主要持份者的者法/分歧/議題隱含的價值觀,但欠清晰,也不深入;運用基本/非完全相關的概念及知識/事實/或不準確及/或邊時的資料 運用非完全相關的概念及知識/事實/或不準確及/或過時的資料 運用非完全相關的概念及知識/事實/或不準確及/或過時的資料來論證其立場/選擇/決定,在某些地方發現邏輯推理有誤及理據欠充份 	有欠連貫性、意念或 欠完整有 完整的 等的地方 • 大致如常是一致, (例數據等形式 及數據等形式 科) • 註明資料來源確的 地方	 在探究過程中能夠 決一些困難 有一些可知期完成」 作/教師須時加倡 促出一些努力以首 改善

3. 指導學生提升及有效地展示其分析論證能力

d. 有效地 運用機構的 統計數據 及展示資料 a. 擬定聚焦 及具探究性 題目

c. 採用 多元化 探究方法



A擬定聚焦及具探究性題目

「好」題目的特性

除了連繫性高 (與學生、與課程)及可行外,也應

- ◆具分析性及探究性(可考慮屬分析、比較、或評估類型)
- ◆明確及聚焦(具特定的研究對象、研究範圍、探究 焦點如可行性、程度、影響性)



幫助學生在解釋及論證部分 (C及D部分)有更深入的討論

參考理論與公開考試相關題目類型

與公開考試相 關的題目類型

Creating

 The student can put elements together to form a functional whole, create a new product or point of view: assemble, generate, construct, design, develop, formulate, rearrange, rewrite, organize, devise.

Evaluating

 The student can make judgments and justify decisions: appraise, argue, defend, judge, select, support, evaluate, debate, measure, select, test, verify

分析 及 比較

Analyzing

 The student can distinguish between parts, how they relate to each other, and to the overall structure and purpose: compare, contract, criticize, differentiate, discriminate, question, classify, distinguish, experiment

Applying

 The student can use information in a new way: demonstrate, dramatize, interpret, solve, use, illustrate, convert, discover, discuss, prepare

Understanding

 The Student can construct meaning from oral, written and graphic messages: interpret, exemplify, classify, summarize, infer, compare, explain, paraphrase, discuss

Remembering

 The student can recognize and recall relevant knowledge from long-term memory: define, duplicate, list, memorize, repeat, reproduce

Trinity University, "Inside Trinity: ADDRESS: https://inside.trinity.edu/collaborative/collaborative-grants/course-redesign-stipends/course-assessment-and-outcomes>

B檢視「焦點問題」

- ◆焦點問題是否回應探究題目?
- ◆焦點問題是否清晰、具體而聚焦?
- ◆焦點問題的探究重要是否由淺入深?
- ◆焦點問題是否具有C、D兩部份特性?



- ✓ 清晰地釐定要搜集甚麼具體資料
- ✓ 為未來的探究方向展示了明確的路徑
- ✓ 在選定研究方法時提供了清楚的準則

議題探究:由淺入深	相關重點
C. 深入解釋議題 - 分析成因、影響、理解分歧和衝突	多角度思考:多因多果不同的價值觀、利益與信念展現良好的歸納能力
D. 判斷及論證 - 作出評鑑、判斷、表達立場、探求出路	 考慮多方面的論據 權衡正反兩方的觀點 提出立場和理據,並加以解釋 對焦問題,提出建議和解釋 展現明辨性思考能力和創造力

C採用多元化探究方法的切入點

方法學	簡介	題目舉隅	探究方法舉隅
文 分 法	選爭搜分加並的 選議 得 分加 並		 了解背景 一搜集資料 一提等 一月 一月

調査結果:

第一題: A. 24 票 B. 52 票 C. 8 票 D. 16 票

第二題: A. 10 票 B. 65 票 C. 17 票 D. 8 票

其他: G.3票

第六題: A.11票 B.7票 C.9票 D.16票 E.2票

第七題: A. 47 票 B. 21 票 C. 32 票

第八題: A. 12 票 B. 63 票 C. 25 票

第九題: A. 78 票 B. 6 票 C. 16 票

圖表鋪

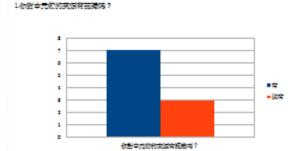
税益 333室

野会が影響を含むな事業

■不知道中式原含19数

中共開発的過去等 ・食中食中食物は食

第4会・日本結構

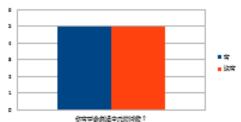


念然独立无的运动的竞心与符号也也只是企业立程。保证"一而其他运动结合特性也不是3

营拿在部件债务

将生业专办中都不知道中元的约会来,中元的约会来是据历卫这战器—约翰志·

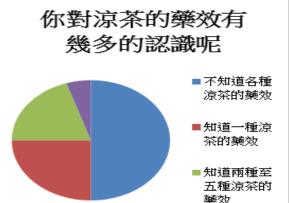
2份将石造的独立元的运动?

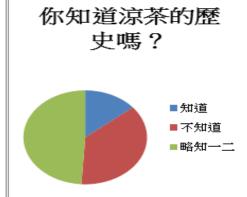


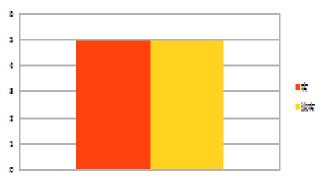
设含金数全式型设备·桑全面和正式是什么?

4.连有虚约中元的运动。 基主动的反应是什么?

有三分<mark>女</mark>青少年都不知道幸元的约查克。但 仍然含含药辛元的活动,有三分女青少年的不) 至中元的的台京。也不合多的中元的指数,有三分一合少年期间至中元的的台京。但不合: 不多的中元的指数的含少将在这人和历史的主任有量的中元的指数的专任。



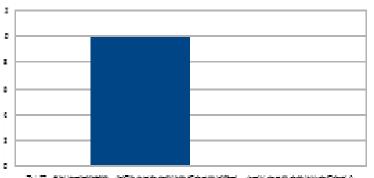




2.新型物品的数字类型的数、品类数、数数数 数分面数 二面的 异氯磺甲

只有一学者少尔亚第自己在多名学员的运动的,在海底方面将正面的转数。

4.承上短,對幾连正因的转鐵,你还為自己 能在機能接触 中元的活動下,也可以在日 常中基 经营方供会现 7

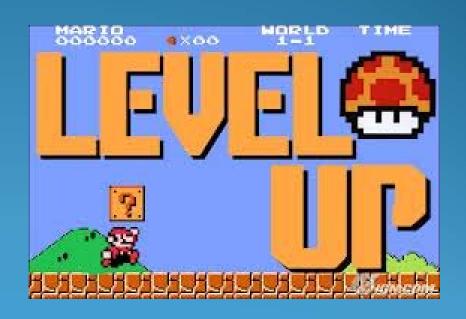


录字图·显然描写过的声音·多级声音已经 在隐蔽部 肠中皮肤 网络子 · 在可证 在目的 中共经验 方形含物 ?

金额青少年的还真自己的在检验控制中元的活动下,也可以在日常中总统地方相合连来能力 国的特殊。

7.尽上短,如满你控告中元的活动, 你会听 空合對 你存正 回的转 鼓弓 7.

處理資料(問卷數據)的能力層級



分類/分項處理

• 例子1:按焦點問題分類

✓ 運用所收集的數據結果---按焦點問題分類 ,並且每部分作小總結

例子2: 按受訪者分類

✓ 就發展作小總結,以回應焦點問題

善用機構的統計數據舉隅/研究報告

消費者委員會政策及研究---研究報告 https://www.consumer.org.hk/ws_chi/keywordsearch?keys=



善用機構的統計數據舉隅/研究報告

環境保護署

http://www.epd.gov.hk/epd/tc_chi/top.html







GOVHK香港政府一站通 简体版 ENGLISH

□ 流動 / 無障礙瀏覽版本 A A A 搜尋 輸入查詢字串

Д 網頁指南 🗹

餺

最新消息

消息與活動













善用機構的統計數據舉隅/研究報告

突破機構

https://www.breakthrough.org.hk/ir/youthdatabank/index.htm

青少年最新研究資料庫

https://www.breakthrough.org.hk/ir/youthdatabank/ReportList.

htm

【青少年研究資料庫】待上載研究報告目錄

(更新日期: 2017-03-01)

	研究報告發 佈出版 日期	研究單位	研究題目	接收報告 日期	預計上載 日期
1	2016-10	民建聯	市民對初中中國歷史科的看法調查結果	2016-10	2017-07-03
2	2016-10	香港小童群益會	香港兒童快樂因素調查 (結果撮要)	2016-10	2017-07-03
3	2016-10		青年創研庫 15 : 青年對公務員及其所面 對挑戰的意見	2016-10	2017-07-03
4	2016-09	九龍社團聯會	市民對教育政策的看法問卷調查結果	2016-10	2017-07-03

