

クリティカルシンキング（スキル） と国際バカロレアの英語授業

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本発表は、早稲田大学特定課題研究「英語による質疑応答能力の育成：国際バカロレアの外国語科目の教育手法に着目して」(課題番号2018K-430)の一部です。

自動車事故で大怪我をした幼い子供が集中治療室に運ばれてきました。運転していた父親も危篤の状態です。別の病院に搬送されました。集中治療室に運ばれてきた幼い子供を見た外科医は、

「私には手術できない。我が子なので冷静な判断が保てない」と別の外科医に交替を申し出ました。

どうして、この外科医は「わが子」だと言ったのでしょうか。

Trapholt Art Museum in Denmark



Trapholt Art Museum in Denmark



- The fish were killed "instantly" and "humanely", said Judge Preben Bagger.
- Mr Meyer will not now have to pay the fine of 2,000 kroner (269 euros) originally imposed by Danish police.

背景

- ・人々が国境を越えて活動する機会が増え、付加言語(additional language)で教育を受ける生徒が増加
- ・さまざまな価値観が共存し、多面的に物事を捉える重要性が高まる
- ・暗記・理解に加え、分析、評価、新たな創造を生み出す、他者と協調しながら学び合うといった学習プロセスが重視される



Critical thinking skillsを育成する授業の重要性が高まる。

▶付加言語(additional language)による授業では・・・

言語運用力そのものが障壁であると捉えられ、Critical thinking skills習得のための体系的な教育方法の確立にまで至らず。

基本となる問い

高次思考レベルの学習活動を中心とした授業形態は、言語運用力と批判的思考力の育成に対してどの程度に有効に機能するのか。

手がかり・研究目的

国際バカロレア・ディプロマプログラム（略称IBDP）の
外国語科目「Language B(English)」と批判的思考力の育成
を主目的とする授業「TOK」に着目

⇒英語を媒介とする授業（略称EMI）でどの程度有効に
機能するのかを検討し、国内での実践へと適用すること
が目的

研究課題

- ①IBDPの教育方法の理念や特徴を整理
- ②批判的思考の諸理論と付加言語による授業の現状を考察
- ③HOTSレベルの問いを中心とした授業内容・方法を検討
- ④批判的思考を育成するEMIの授業における教育手法を開発し、授業実践とその検証を実施

他国の状況（2018.8調査概要）

Singapore National Junior College（IB未実施校）

- ・断片的な知識を網羅することよりも、創造的・批判的思考力を発揮することも重視
- ・IBはalternative educationの1つ。さらに上をいく教育を実施しているという自負がある（IBは知識量が乏しいという指摘もあり）

Singapore School of Arts（IBCP実施校）

IB実施前の学年では外国人生徒向けにESL and critical thinkingという科目が設置されている。

疑問

| B教育でどの程度critical thinking skillsは育成できるのか。

- 赤塚(2017)において、Language Bが内発的動機づけの高まりやライティング力の向上に有益であることを示した。一方、批判的思考の高まりと言語運用力の両立がどの程度可能なのか、といった課題まで踏み込めていなかった。
- 河野(2016)では、HOTSレベルの問いがLanguage Bの教材にどの程度含まれているのか分析している。
- TOKに関する研究については、学習材の特徴分析、評価手法の検証の観点から研究がされてきた。例えばCole, Ullman, Gannon & Rooney(2015)では、TOKが批判的思考の伸長に機能する可能性があることを示唆している。一方、いずれの研究も、本研究課題である批判的思考の高まりと言語運用力向上にどの程度有効に機能するかという課題まで切り込んでいない。

批判的思考(Critical thinking)とは

「他者の主張を鵜呑みにせず、また自分自身の考えについても本当にそうなのかと疑いながら、根拠にもとづいた論理的な思考を通して問題解決や意思決定を行うこと」 (樋口2013)

高等教育世界会議「21世紀の高等教育世界宣言－展望の行動－」
(1998)「第9条 革新的な教育方法－批判的思考と創造性－」
→民主主義社会における市民性の育成として批判的思考の指導の
重要性を指摘

DeSeCo(Definition and Selection of Competencies)(2003)

→「特定の状況の中で（技能や態度を含む）心理社会的な資源を
引き出し、動員することにより複雑な需要に応じる能力」をコン
ピテンシー(Competency) もしくはコンピテンス(Competence) と
し、樋口(2013)は「批判的思考が中心的な役割を果たす」、と
主張

国際バカロレアとは

The International Baccalaureate® aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect.

国際バカロレア教育とCritical thinking

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DPでは全教科・科目を通して、パフォーマンス評価（これまでの学習で身につけた知識やスキルを応用・統合し、何らかの実践を行うことを求める評価活動）を評価指標（ルーブリック）を用いて実施することや、異文化理解を促す評価活動を実施すること、低次の思考スキル(lower order thinking skills)と同様に高次の思考スキル(higher order thinking skills)についても評価すること、多様なタスクを与え、多様な評価材料により学習者の能力（コンピテン

ス）を絶対評価により評価する。

Previous Research

- The level of students' thinking is strongly influenced by the level of questions which are asked in class (King, 1995; Taba, 1966).
- Most questions asked in a classroom context seem to be at the lower level of cognitive process (Khan & Inamullah, 2011).
- The important element is that the act of thinking often driven by questions (Edler & Paul, 1998).
- The three highest levels of skills (analysis, synthesis and evaluation) are often representative of critical thinking (Kennedy, Fisher & Ennis, 1991).

What is IB? What is Language B?

- Internationally recognized programme.
- Aims to foster students' international mindedness and critical thinking skills.
- Language B encourages students to have analytical, evaluative, and creative skills.
- Analysis, evaluation, and creation fall under the rubric of so-called 'Higher Order Thinking Skills' (HOTS), and a key feature of the Language B course is that these HOTS are taught alongside the so-called 'Lower Order Thinking Skills' (LOTs) such as memorisation, understanding, and application.

Comparison to IB' EFL and MEXT's EFL

[IB] Students come across a range of different forms of text (not only newspaper articles, but blogs, letters, pamphlets, etc.), and are required to actually utilise these forms by way of writing.

[IB] Not only includes questions that serve to check a student's understanding of a section of English text (an understanding of relations of fact), but also has many questions which require the student to express their own opinion or position on a topic, or is set up in such a way as to foster debate on a topic with their fellow students.

[MEXT] Encouraging understanding of the textbook's content, for example, questions whose answers are only found in the provided text. According to Kawano (2016), while with MEXT approved textbooks roughly 94% of questions fit this description, less than 64% do in the case of questions found in Language B course learning material.

- This difference may have an influence on the development of students' critical thinking skills.

About knowledge

I know...

I know that $2 + 2 = 4$ always.

I know that the earth is round.

I know that I'm really hungry.

I know that the sky is blue.

Personal knowledge, Shared knowledge,

Knowledge claim

A knowledge claim something that the claimant believes to be true, but is open to fact-checking, discussion and debate.

The goldfish were placed on display swimming in the blenders, and visitors were told they could press the "on" button if they wanted.

At least one visitor did, killing two goldfish.

• • • • • 中略 • • • • •

A court in Denmark has now ruled that the fish were not treated cruelly, as they had not faced prolonged suffering.

The fish were killed "instantly" and "humanely", said Judge Preben Bagger.

The court had earlier heard an expert witness from the blenders' maker, Moulinex, that the fish had probably died within one second of the blender being switched on.

A vet also told the court that the fish would have died painlessly.

• • • 中略 • • • •

Mr Evaristti said at the time he wanted to force people to "do battle with their conscience".

The idea, he said, was to "place people before a dilemma: to choose between life and death."



- This presentation is not like the ones I have done in the previous English class in my life.
- we could share different values with each other and include multiple perspectives in our presentation.
- . Furthermore, it is important to maintain a critical attitude toward knowledge claims. In order not to blindly trust what's going on in the world, critical thinking is indispensable.

I found that narrow knowledge never produces a great creation but understanding variously gives a variety of perspectives, helps to connect different areas, and which make an excellent idea and product.

I have not only improved my English understandings, but also learned how discussing with others is important to make further understandings, and how to think things critically.

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