

Form B-2  
(FY2020)  
Must be typed

Date (日付)  
13/07/2020 (Date/Month/Year: 日/月/年)

**Activity Report -Science Dialogue Program-**  
**(サイエンス・ダイアログ事業 実施報告書)**

- Fellow's name (講師氏名): KOEPPL Dominik (ID No. P18120)

- Name and title of the accompanying person (講義補助者の職・氏名)  
なし

- Participating school (学校名): 福岡雙葉高等学校

- Date (実施日時): 13/07/2020 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):  
理論計算機科学の魅力

- Lecture format (講義形式):

◆Lecture time (講義時間) 80 min (分), Q&A time (質疑応答時間) 20 min (分)

◆Lecture style (ex.: used projector, conducted experiments)

(講義方法 (例: プロジェクター使用による講義、実験・実習の有無など))

プロジェクター・黒板・紙とハサミ

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

The lecture was an introductory course to computer science.

We assessed that computer science is ubiquitously prevalent in various areas.

Astonishingly, we could draw a connection between classic Japanese structures such as Origami and 四字熟語 with computer science. Finally, we studied the Burrows-Wheeler transform as a way to represent a string in a more compressible form, and highlighted several applications of it such as compressed index data structures for DNA fingerprints.

◆Other noteworthy information (その他特筆すべき事項):

The students were very motivated and eager to participate actively during this lecture. This made it possible to let the students conduct a theoretical experiment by their own, deepening their understanding of the studied aspects.

- Impressions and comments from the accompanying person (講義補助者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。):