

Form B-2  
(FY2020)  
Must be typed

Date (日付)  
25/08/2020 (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): Francesco Parente \_\_\_\_\_ (ID No. PE19760)
- Name and title of the accompanying person (講義補助者の職・氏名) N/A \_\_\_\_\_
- Participating school (学校名): Kagawa Prefectural Kannonji Daiichi High School
- Date (実施日時): 21/08/2020 \_\_\_\_\_ (Date/Month/Year: 日/月/年)
- Lecture title (講義題目): On the infinite \_\_\_\_\_
- Lecture format (講義形式):
  - ◆Lecture time (講義時間) 100(分), Q&A time (質疑応答時間) 20(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))  
A presentation using projector and blackboard \_\_\_\_\_
- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.  
In the first part of the lecture, I introduced myself discussing my background and what motivated me to become a researcher in mathematics. In addition to that, I indicated possible obstacles students face when approaching scientific subjects and tried to give my perspective on how to overcome them.  
The second part was focused on the mathematical treatment of infinity. I introduced Cantor's notion of cardinality and presented examples of bijective functions between infinite sets. Furthermore, I discussed the existence of different infinite cardinalities and its philosophical implications.  
To conclude the session, I invited the students to consider the magnitude of finite and infinite numbers, with interactive exercises and a discussion session afterwards.
  - ◆Other noteworthy information (その他特筆すべき事項):
- 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。): N/A