

様式 A-1

2026年6月19日

サイエンス・ダイアログ 実施報告書

1. 学校名: 奈良県立青翔中学校・高等学校
2. 講師氏名: Dr. Simran ARORA (Ms.)
3. 講義補助者氏名: なし
4. 実施日時: 2026年6月19日(金) 15:30 ~ 17:30
5. 参加生徒: 1年生 14人、2年生 40人、3年生 0人 (合計 54人) ※理数科の生徒(希望者)
6. 講義題目: The Universe: A journey from the Beginning to Today
7. 講義概要:
 - ・講師の自己紹介、出身国の紹介
 - ・研究者としてのキャリアについて
 - ・研究の概要について
 - ・質疑応答
8. 講義形式:
 - ☒対面 ・ ☐オンライン (どちらか選択ください。)
 - 1) 講義時間 60分 質疑応答時間 30分
 - 2) 講義方法 プロジェクター使用による講義、実験・実習: 無
 - 3) 事前学習
 - ☒有 ・ ☐ 無 (どちらか選択ください。)
 - 使用教材: 自作プリント教材
9. その他特筆すべき事項:

Form B-2

Date (日付) 22/06/2026

(Date/Month/Year: 日/月/年)

Must be typed

Activity Report -Science Dialogue Program-

(サイエンス・ダイアログ 実施報告書)

1. Fellow's name (講師氏名): ARORA SIMRAN (ID No. P24318)
2. Name and title of the lecture assistant (講義補助者の職・氏名). Mr. Toru TANIGAKI
3. Participating school (学校名): Nara Prefectural Seisho High School.
4. Date (実施日時): 19/06/2026 (Date/Month/Year: 日/月/年)
5. Lecture format (講義形式):
 - ◆ ☒ Onsite ・ ☐ Online (Please choose one.)(対面 ・ オンライン)(どちらか選択ください。)
 - ◆ Lecture time (講義時間) 55 min (分), Q&A time (質疑応答時間) 30 min (分)
 - ◆ Lecture style (e.g. 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))
Used Projector and Microphone
6. Lecture title (講義題目): The Universe: A journey from the Beginning to Today
7. Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

We explored the fascinating story of our Universe, from its vast scale to its ongoing expansion. We discussed what the Universe is made of, how astronomers measure enormous distances using light-years, and the evidence that the Universe is continuously expanding. We also talked about some of the biggest unanswered questions in modern science and how observations help us understand the Universe. Over millions and billions of years, gravity amplified tiny density fluctuations, leading to the formation of the first stars and galaxies. These stars forged heavier elements in their interiors, enriching the cosmos and eventually giving rise to planets, solar systems, and the conditions necessary for life. Our own Solar System formed approximately 4.6 billion years ago within the Milky Way Galaxy. Observations during the late twentieth century revealed an unexpected discovery: the expansion of the Universe is accelerating. This phenomenon is attributed to an unknown component called dark energy, which currently dominates the cosmic energy budget.

Beyond astronomy, I shared information about my home country, India, including aspects of its culture, history, and scientific achievements. The session was highly interactive, with students asking many thoughtful and engaging questions about space, the Universe, and life beyond Earth. Their curiosity and enthusiasm made the discussion both enjoyable and rewarding.

Overall, the presentation provided an opportunity to inspire interest in science, encourage critical thinking, and highlight how the study of the Universe helps us better understand our place within it.

8. Other noteworthy information (その他特筆すべき事項): None

9. Impressions and comments from the lecture assistant (講義補助者の方から、本プログラムに対する意見・感想等がありましたら、お願いいたします。):

The presentation was engaging and well received by the students. They showed a strong interest in science and were actively involved throughout the session. The topics on the Universe, light-years, and cosmic expansion sparked curiosity and encouraged many thoughtful questions.

The interaction among the students, teachers, assistants, and the presenter was excellent, creating a lively and welcoming learning environment. The students participated enthusiastically in discussions, demonstrating both curiosity and a willingness to learn. Overall, the session successfully promoted interest in astronomy and science while fostering meaningful communication between everyone involved.