

Core Skills Analysis

Science

- Ami learned about the physical phenomena that cause auroras, specifically the interaction between solar wind and Earth's magnetic field.
- She explored how different atmospheric conditions and the Earth's position in relation to the sun affect the visibility of the auroras.
- Ami engaged in discussions around the composition of the Earth's atmosphere and its role in showcasing the vibrant colors of the aurora borealis.
- Through gameplay, she gained insights into the environmental impact of light pollution and its effect on observing natural phenomena like the auroras.

Geography

- Ami expanded her understanding of Earth's geographical poles and how they are crucial for auroral activity.
- She examined the locations where auroras are most frequently observed, linking this to her knowledge of latitude and atmospheric phenomena.
- During the activity, she learned about the indigenous cultures that have historically interpreted the aurora borealis, enhancing her cultural geography awareness.
- Ami also had the opportunity to map out regions of the world that experience auroras, reinforcing her skills in geographical representation and understanding of global phenomena.

Arts

- Ami creatively expressed her understanding of the aurora borealis through art, experimenting with colors and shapes inspired by the natural phenomenon.
- She explored how various artists have depicted the auroras, thus gaining appreciation for visual arts and different artistic styles.
- Through her project, she also learned about the emotional and symbolic meanings often associated with the aurora borealis in different cultures.
- By integrating art and science, Ami discovered the significance of blending different disciplines to convey information and evoke feelings.

Tips

To further enhance Ami's learning experience, consider arranging a field trip to a local planetarium or science center that focuses on space and atmospheric phenomena. Engaging her in projects like building a model of the solar system or creating an art piece inspired by the auroras will also promote cross-disciplinary learning. Encourage her to conduct simple experiments related to atmospheric effects, and utilize online resources or documentaries about the aurora borealis to deepen her understanding and keep her engaged.

Book Recommendations

- [The Northern Lights: The True Story of the Man Who Unlocked the Secrets of the Aurora Borealis](#) by Joan Marie Galat: This book provides an engaging exploration of the science and history behind the aurora borealis, ideal for young readers interested in nature and science.
- [A Forest of Flowers in the Sky](#) by Eric R. Barnes: A beautifully illustrated book that captures the wonder of the aurora borealis with stories and facts suitable for a younger audience.
- [The Secret of the Northern Lights](#) by Victoria D. Reddy: This fictional tale weaves together

adventure and scientific insight, explaining the aurora borealis while captivating the imagination of readers.