

## Core Skills Analysis

### Science

- Jo has learned about osmosis as she observed how the gummy bears absorbed the Sprite, demonstrating the movement of water molecules from an area of lower concentration to an area of higher concentration.
- Through the freezing process, Jo explored how temperature affects the state of matter, noting the transformation of the gummy bear and Sprite mixture as it transitioned from liquid to solid.
- Jo developed an understanding of the properties of gelatin, specifically how it can change in texture and form based on the absorption of liquids and the freezing process.
- The experiment encouraged Jo to make predictions about the outcome, fostering her analytical thinking as she concluded on the reaction of different solutions with gelatin.

### Tips

To enhance Jo's learning experience, consider extending the exploration of osmosis by discussing real-world applications, such as the roles of osmosis in plant health and hydration. Engaging Jo in a more comprehensive science project could involve experimenting with different liquids and observing their absorption in gummy bears, or even creating a hypothesis about the effects of temperature on osmosis. Additionally, using virtual lab simulations or experiments in Minecraft that allow her to visualize scientific concepts can improve her understanding and retention.

### Book Recommendations

- [Osmosis Jones](#) by Rick Meyer: An engaging story that introduces the science of the human body using a unique blend of humor and action, perfect for understanding biology.
- [The Magic School Bus Inside a Beehive](#) by Joanna Cole: A fun and educational journey that teaches kids about bee biology and ecosystems, encouraging an understanding of living creatures.
- [Horrible Science: The Brain Freeze](#) by Nick Arnold: This book delivers scientific concepts in a fun, humorous manner, perfect for kids curious about experiments and science-related topics.