Objective

By the end of this lesson, Daniella and Alisia will understand the three main states of matter: solids, liquids, and gases. They will be able to identify examples of each state, explain the characteristics that differentiate them, and engage in fun activities that reinforce their learning.

Materials and Prep

- Paper and colored pencils or markers
- Water (for demonstration)
- A small ice cube
- A balloon (to represent gas)
- Access to a timer or clock (for timing activities)

Before the lesson, ensure that you have all the materials ready and a comfortable space for activities. Familiarize yourself with the basic definitions and characteristics of solids, liquids, and gases.

Activities

- **State Sorting:** Daniella and Alisia will draw pictures of various objects around them that represent solids, liquids, and gases. Afterward, they will categorize their drawings into three groups and share their findings with each other.

- **Water Experiment:** Using the ice cube and water, they will observe the changes when the ice melts into water and when water evaporates into steam. They will document their observations in a simple chart.

- **Balloon Blow-Up:** Daniella and Alisia will blow up a balloon and discuss how the air inside represents a gas. They will also explore how the balloon changes shape and size when they let air out.

Talking Points

- "What do you think makes a solid different from a liquid?"
- "Can you name something that is a liquid? How does it feel compared to a solid?"
- "Gases are all around us, but we can't see them! Can you think of an example of a gas?"
- "When ice melts, what state of matter does it turn into? And what happens when we heat water?"
- "Did you know that when you blow up a balloon, you're filling it with gas? How does that change the shape of the balloon?"
- "Let's think about the water cycle! How do you think water changes from one state to another in nature?"