

Child's Growth and Learning

Domain: Science

Key Element: Scientific Skills and Methods

ACTIVITY	OBJECTIVES	MATERIALS
Air is Real	<p>Students will use their senses as they observe and conduct experiments.</p> <p>Student will increase ability to observe and discuss.</p>	<p>Empty bottle Deep pan or bowl full of water Balloons Straws Ping Pong Balls Pinwheel</p>

Lesson Plan

Place an empty bottle into a deep pan or bowl full of water. Watch the bubbles come up. Blow air through a straw onto hand and into water. Blow up balloons. Free air from balloon into water. Fill a plastic bag with air from balloon. Blow on a pinwheel or hold a pinwheel in front of a deflating balloon. Move a ping pong ball using blown air through a straw. Listen to moving air.

Guidance/Facilitation/Teacher Behaviors

Teacher will encourage students to discuss objects and events that have been observed. Teacher will provide opportunity to observe and make predictions.

Procedure/Process/Expected Child Behaviors

Student will show interest in active investigation about air. Student will attempt activities and generate additional ways to measure that air is real.

Extensions

Placement of balloons and straws and other materials at the water table for future exploration.

Air takes up space: Place a paper towel in the bottom of a glass. Turn the glass upside down, and holding it in a straight vertical position, lower it under water. Lift the glass and feel the paper towel. Lower the glass with the towel under water again. Tilt the glass. Lift the glass and feel the paper towel. (When the glass was tilted, some air escaped from the glass and water went into the glass.)

Air presses: Stand a tin can on a table and try to blow it over. Fasten a balloon to the end of a straw. Lay the balloon on the table and stand the tin can on it. Blow into the straw. Stand a large book on a table and try to blow it over. Take a paper bag, make a neck in it, and stand the book on the bag. Blow into the neck of the bag.

Air contains water: Take a large jar and let the children see that the outside of the jar is dry. Fill the jar with ice. Observe what happens. Ask: How did water get on the outside of the jar? Why? (The air around the jar was cooled.)

Evaluation

Students will actively become involved in experimenting, hypothesizing, and observing. Demonstrated activities will be placed in a discovery center for continued exploration by the students.