



# ISE GRADE 2 SCIENCE CURRICULUM STANDARDS / LEARNING OUTCOMES



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p><b><u>Topic Three: Air and Weather</u></b></p> <p><b>Exploring Air</b></p> <ul style="list-style-type: none"><li>• Air is matter</li><li>• Air takes up space</li><li>• Air interacts with objects</li><li>• Air resistance affects how things move</li><li>• Air is all around objects</li><li>• Air can be compressed</li><li>• The pressure from compressed air can move things.</li><li>• Air is a gas</li></ul> <p><b>Observing Weather</b></p> <ul style="list-style-type: none"><li>• Weather is the condition of the atmosphere (air) and changes over time.</li><li>• Temperature, precipitation, and cloud types are components of the weather that can be described.</li><li>• Meteorologists are scientists who study weather</li><li>• There are different kinds of clouds</li><li>• Rain is water that comes from clouds</li></ul> <p><b>Wind Explorations</b></p> <ul style="list-style-type: none"><li>• Wind is moving air</li><li>• Wind speed and wind direction are components of weather that can be described using anemometers and</li></ul>	<ul style="list-style-type: none"><li>• Observe the properties of air as it interacts with other materials.</li><li>• Observe the properties of air when it is put under pressure.</li><li>• Compare the pattern a balloon rocket travels along a flight line to that of an air-filled plastic bag.</li></ul> <ul style="list-style-type: none"><li>• Observe and record daily weather on a class calendar and in individual journals.</li><li>• Observe cloud types.</li><li>• Measure temperature and rainfall.</li></ul> <ul style="list-style-type: none"><li>• Observe and compare the action of moving air and its effects on pinwheels, bubbles, and kites.</li><li>• Observe and describe the direction of</li></ul>	<ul style="list-style-type: none"><li>• Full Option System Science (FOSS) Teacher's Guide.</li><li>• Library Books (see list)</li><li>• Videos (see list)</li><li>• Internet</li></ul>



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<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<ul style="list-style-type: none"><li>• wind vanes</li><li>• Wind scales are tools used to describe the speed of the wind</li></ul> <p>Looking For Change: Concepts</p> <ul style="list-style-type: none"><li>• Weather conditions change over time</li><li>• Weather observations can be organized, compared, and predicted</li><li>• The Sun heats the Earth during the day</li><li>• Each season has a typical weather pattern that can be observed, compared, and predicted</li><li>• The bright appearance of the Moon changes shape in a pattern that can be observed, compared, and predicted</li><li>• The Sun and Moon appear to move slowly across the sky</li></ul>	<ul style="list-style-type: none"><li>• the wind using wind vanes.</li><li>• Observe and describe the speed of the wind using an anemometer.</li></ul> <ul style="list-style-type: none"><li>• Organize and graph class weather data recorded for a month.</li><li>• Record weather data throughout the year and compare seasonal weather conditions.</li><li>• Observe the changing location of the Sun during a day.</li><li>• Observe and record nightly weather and the changing appearance of the Moon.</li></ul>	