



# Target Strategies

## 1st Grade - Air and Weather

### Investigation 1

I can work with a set of object to see how objects can be moved by and through air.

I can construct and observe parachutes dropping through air.

I can think about how air helps slow the parachute down.

I can design and test a parachute to land a cargo container without spilling the contents.

I can use syringes to investigate air.

I can discover that air can be compressed and that air under pressure can push objects around.

I can put together tubes, a bottle, water, a rubber stopper, and two syringes to create a system.

I can set up a balloon-rocket system and find out how far the air in the balloon will propel the system along a flight line.

### Investigation 2

I can share what I know about weather and how it relates to air.

I can record daily weather observations on a class calendar.

I can use symbols to indicate five basic types of weather.

I can use a thermometer by measuring the temperature and recording the results.

I can construct a model thermometer and practice reading various temperatures.

I can monitor sunrise and sunset and record the total number of daylight hours each day.

I can collect data on temperature changes during the day.

I can observe and compare several types of clouds and discuss how they move across the sky.



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### Investigation 2

I can use a rain gauge to measure rain or snowfall.

I can make observations of the day and night sky and make observations of the moon.

### Investigation 3

I can use bubble wands to blow bubbles and observe how the air moves the bubbles.

I can feel and observe the wind outdoors.

I can record wind speed by using a descriptive wind scale, and an anemometer.

I can construct a pinwheel and observe how it operates when I blow on it, move it through the air, and take it outdoors in the wind.

I can compare the action between my pinwheel to the class anemometer.

I can learn how wind vanes indicate wind direction.

I can compare wind vanes to that of the movements and direction of bubbles and clouds

I can construct a kite.

I can use the anemometer and wind vane to determine the best location and direction for flying kites.

### Investigation 4

I can organize and graph the class weather data recorded over 4 weeks.

I can compare the amount of daylight on the same day of each month over the year.

I can describe the pattern I see by observing and predicting the number of hours of daylight on my birthday each year.

I can create seasonal graphs of weather and temperature.