# WALLOPING WEATHER

*Get weather-wise. Uncover the reason for seasons. Create three-day weather forecasts. Stage a statically-charged indoor storm. Spot the sun's invisible UV rays with the Sun Beads kit.*

## SUMMARY:
Children get weather-wise in this climate-controlled class! A demonstration using heat sensitive paper and a flashlight brings to light the reasons for seasons. Children discover how air affects weather, and perform a test to prove that air is everywhere. Children try out tools that meteorologists use to measure weather. They create three-day weather forecasts for cities around the world and stage a statically charged indoor storm. Children take home the color-changing Sun Beads kit to detect ultraviolet light from the sun.

## EDUCATIONAL VALUE:
Children conduct hands-on experiments to understand how and why weather occurs. They find out that seasons change as the Earth tilts toward and away from the sun. Children learn that air affects weather. They perform experiments to prove that air has mass and takes up space. After learning that water in the air affects the weather, children recreate the water cycle and mimic a rain cloud. They try out meteorology measurement tools and act like weather reporters. Children learn that ultraviolet light can cause sunburns. They make and take home a color-changing ultraviolet light detector.

## TAKE-HOME MESSAGE:
1 Air is all around us. Air changes affect the weather.
2 Meteorologists study weather so they can warn us ahead of time.
3 Too much UV light can cause sunburns

## TAKE-HOME PRODUCT:
Sun Beads

## NORTH CAROLINA ESSENTIAL STANDARDS:
- K.E.1 Understand change and observable patterns of weather that occur from day to day and throughout the year.
- 2.E.1 Understand patterns of weather and factors that affect weather.
- 5.E.1.1 Compare daily and seasonal changes in weather conditions (including wind speed and direction, precipitation, and temperature) and patterns.
- 5.E.1.2 Predict upcoming weather events from weather data collected through observation and measurements.