



# Weather - Teacher's Guide NC Grade 5 Earth Science

The activities in this teachers guide were created by the Center for Inquiry-Based Learning (CIBL). Activities included here require students to think and assume responsibility for investigating weather systems. The goal is to help students deepen their understanding of underlying concepts through concrete experiences with nature.

CIBL welcomes any feedback you are willing to provide. Contact us through the CIBL web site on the "contact us" tab at <http://ciblearning.org>. If you have questions, feel free to call 919 294-9881.

## Contents

---

<b>5.E.1 and 5.P.2.1 Weather Tanks .....</b>	<b>3</b>
<b>5.E.1.1 and 5.E.1.2 Weather Predictor.....</b>	<b>28</b>
<b>5.E.1.3 Big Picture Weather.....</b>	<b>34</b>

### Correlation to the NC Essential Science Standards

#### **5.E.1 Understand weather patterns and phenomena, making connections to the weather in a particular place and time.**

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.

5.E.1.3 Explain how global patterns such as the jet stream and water currents influence local weather in measurable terms such as temperature, wind direction and speed, and precipitation.

#### **5.P.2 Understand the interactions of matter and energy and the changes that occur.**

5.P.2.1 Explain how the sun's energy impacts the processes of the water cycle (including evaporation, transpiration, condensation, precipitation and runoff).



# Weather

## NC Grade 5 Earth Science

**READ CAREFULLY BEFORE USING THIS WEATHER KIT.**

ANY USER OF THIS **WEATHER** KIT PERMANENTLY RELEASES ALL CLAIMS OF ANY TYPE OR NATURE IN ANY WAY ASSOCIATED WITH ITS USE.

As a condition of using this Weather kit, the user assumes any and all risks attendant to these activities and materials, including claims resulting from uses in any way resulting from or associated with the activities or materials therein. The user is responsible for all issues of safety, health and welfare during activities. The user of this Weather kit waives any and all claims that may result from its use, and releases and holds harmless The Center for Inquiry-Based Learning, agents and employees from any and all claims, demands, causes of action or damages which may accrue on account of bodily or personal injury, property damage, or death arising from the use of the Weather kit.