

## Teacher Guide: Weather Maps



### Learning Objectives

Students will ...

- Interpret a weather station symbol.
- Measure the air pressure in high- and low-pressure systems.
- Draw the circulation of air around high- and low-pressure systems.
- Describe typical weather patterns associated with high- and low-pressure systems.
- Compare and contrast cold fronts and warm fronts.
- Explain how the weather might change as a cold or warm front passes through.



### Vocabulary

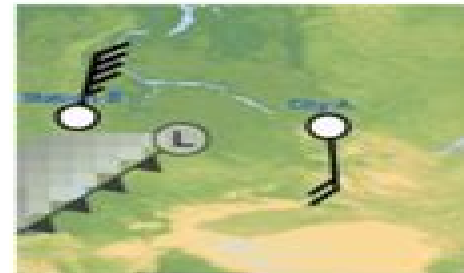
air mass, air pressure, cold front, high-pressure system, knot, low-pressure system, precipitation, warm front



### Lesson Overview

Nearly everyone has listened to a weather person forecasting tomorrow's weather. And nearly everyone has grumbled when that forecast turned out to be wrong. What goes into a weather forecast?

With the *Weather Maps Gizmo™*, students will gather meteorological data and observe typical weather patterns that are associated with high-pressure systems, low-pressure systems, cold fronts, and warm fronts. Based on the patterns they see, students will be able to predict what the weather will be like as one of these systems passes through.



The Student Exploration sheet contains three activities:

- Activity A – Students observe and describe high-pressure systems.
- Activity B – Students observe and describe low-pressure systems.
- Activity C – Students investigate cold fronts and warm fronts.



### Suggested Lesson Sequence

#### 1. Pre-Gizmo activity

(variable)

In the weeks leading up to your weather unit, take the class outside on days when particular weather systems are present. Have students observe the weather when a high-pressure system is present and when a low-pressure system is present. If possible, try to make observations as a cold front and a warm front pass through. Summarize each set of observations on butcher paper and post them on the wall of your classroom.

When students begin the *Weather Maps Gizmo*, you can refer to these observations to see how well they agree with what is shown in the Gizmo.

# Weather Maps Gizmo Answers Teacher Guide

**National Science Resources Center  
(U.S.)**



## **Weather Maps Gizmo Answers Teacher Guide:**

*Editor & Publisher*, 2003      **Children's Magazine Guide**, 1994      **United States Naval Institute Proceedings**, 1990      **Proceedings - United States Naval Institute** United States Naval Institute, 1990-12      *Mapping Skills with Google Earth: Weather Maps* Paul Bramley, 2013-10-01 This is the chapter slice Weather Maps from the full lesson plan Mapping Skills with Google Earth Move on from a basic understanding of map reading to a more complex one with our engaging resource designed for students in grades six to eight Students will further develop their ability to read and understand maps by looking at weather and population maps Then students will engage in mapping their country in detail including states provinces capitals cultural and geographical features Finally students will move on to mapping their continent and then the world Comprised of reading passages map activities crossword word search and comprehension quiz our resource incorporates curriculum based lessons with Google Earth so students can further understand the complexities of map reading with the help of visual and interactive technology All of our content meets the Common Core State Standards and are written to Bloom's Taxonomy      **Reading Weather Maps** Nancy Moore, 1999-09-01 The activities in this packet explain elementary concepts in the study of weather including pressure reading weather symbols and maps General background information suggested activities questions for discussion and answers are included      **A Quick Guide on Weather Maps and Charts | Identifying Pressure Systems and Fronts Grade 5 | Children's Books on Weather** Baby Professor, 2022-12-01 Meteorologists do a very important job and this book will give you an inside look of what they do Here you will learn to read weather maps You will read about pressure systems fronts and other features of weather maps and charts You will also learn about symbols commonly used in weather maps and charts So the next time you listen to a weather broadcast you'll know exactly what they mean      [Weather Patterns \(GK U4\)](#) Core Knowledge Foundation, 2019      **Weather** National Science Resources Center (U.S.), 1995 A 16 lesson unit developed and successfully field tested with first graders It builds on children's observational capabilities by introducing them gradually to specific weather features Page 3

**WEATHER Gr. 3-5** Rob Bignell and Frank McQuay, 2021-06-04 Introduce students to weather This unit contains hands on activities which allow students to discover weather in a fun way For grades 3-5 the focus of this earth science unit is to develop skills in weather reporting on video researching graphing weather data reading weather maps computer searching and conducting experiments with an emphasis on the scientific method The activities are designed to encourage oral interaction creativity and cooperative learning The following concepts will be developed throughout the use of this unit many of life's activities are affected by the weather specific conditions usually precede certain weather changes seasons have distinct weather conditions and they change continually weather is responsible for cyclical patterns found in the natural world and the students should become familiar with the scientific method      **Weather Maps** Ian F. Mahaney, 2006-08-01 Explains how to read and understand a weather map      **Mapping the Weather** John Wood, 2019-07-15 Many maps present

weather patterns which can aid in helping people predict hurricanes tornadoes tsunamis and other forms of extreme weather These maps can help people understand the normal patterns of everyday weather as well Readers are introduced to these kinds of weather maps through accessible main text Detailed diagrams useful graphic organizers interesting fact boxes and full color examples of maps serve as additional resources to help readers understand this science and social studies curriculum topic

**Instructions for the Preparation of Weather Maps** ,1961 **Instructions for the Preparation of Weather Maps** Great Britain. Meteorological Office,1967 *Mapping the Weather* John Wood,2019 Many maps present weather patterns which can aid in helping people predict hurricanes tornadoes tsunamis and other forms of extreme weather These maps can help people understand the normal patterns of everyday weather as well Readers are introduced to these kinds of weather maps through accessible main text Detailed diagrams useful graphic organizers interesting fact boxes and full color examples of maps serve as additional resources to help readers understand this science and social studies curriculum topic amazon com

**Instructions for the Preparation of Weather Maps with Tables of the Specifications and Symbols** ,1943 **Weather** National Geographic,Patricia Daniels,2001 This pocket guide on the weather encourages children to investigate the natural world up close and on their own Filled with fun facts in an easy to read text this guide introduces readers to basic weather patterns explains how rain occurs and more Full color illustrations for notes Consumable

Weather Maps Peter R. Chaston,1997-01 Wild about Weather National Wildlife Federation,1997 An introduction to the study of weather and weather phenomena through a wide variety of interactive activities **Instructions for the Preparation of Weather Maps with Tables of the Specifications and Symbols** ,1951

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