

NYSTROM

ENC@MPASS

Grade 3

Connections

SAMPLE



NYSTROM

TEACHER'S GUIDE

ENC@MPASS

Connections

A HANDS-ON ELEMENTARY
MAPPING PROGRAM

FIRST EDITION



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How do maps and globes help us?

ACTIVITY

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ACTIVITY 4

Cardinal Directions



Atlas pages 18–19

Objectives

- Draw a compass rose.
- Locate the North and South Poles on a globe.
- Use north, south, east, and west to locate places on a map.

Materials

- ☐ Activity Globes
- ☐ U.S./World Desk Maps
- ☐ map markers

Getting Started

Write **N**, **S**, **E**, **W** in a column on the board. Say:

- What do these letters stand for? (*the four directions*)
- Can you name the four directions?

Invite volunteers to come to the board and complete the spellings of the four directions.

Teaching

1 Draw a compass rose.

- Divide the class into six groups. Distribute an Activity Globe, U.S./World Desk Maps, and map markers to each group.
- Model for students how to make a compass rose by drawing a set of arrows on the board. Indicate north only.
- Tell groups to copy the arrows on their Activity Globes and add the other three directions.
- Have group members take turns adding compass roses in different places on the globe.

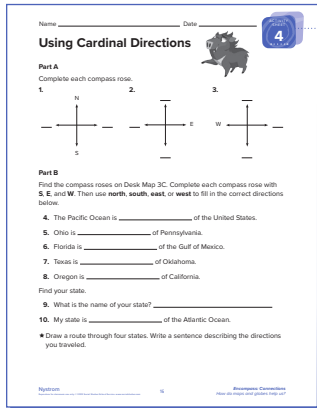
2 Locate the North and South Poles on a globe.

- Point out the North Pole on an Activity Globe.
- Tell students that the North Pole is the point farthest north on Earth. Say:
 - Find the North Pole on the globe and label it **NP**.
- Have students place a finger anywhere on the Activity Globe and move it toward the North Pole. Have them draw an arrow to show the path their fingers took. Ask:
 - In what direction did your finger move? (*north*)
- Repeat the activity to identify and label the South Pole.

3 Use north, south, east, and west to locate places on a map.

- Ask students to find a compass rose on side 3D of the desk map. Have them label the arrow opposite **N** with an **S**.

- b. Have students put their markers on the C in China. Then have them move their markers north. Ask which countries they reached. ([Mongolia](#), [Russia](#))
- c. Then have students finish labeling the compass rose.
- d. Ask students to do the following:
 - Point to the ocean east of United States. ([Atlantic Ocean](#))
 - Point to the country west of Argentina. ([Chile](#))



Activity Sheet 4

Summarizing and Assessing

1. Distribute Activity Sheet 4, *Using Cardinal Directions*.
 - a. Tell students to work in pairs to complete Part A. Go over students' responses before continuing to Part B.
 - b. Read the directions to Part B and complete the first item as a class. Then have students work individually to complete the sheet.

Digital Practice

You can invite your students to further explore cardinal directions using a compass rose by assigning them the digital activity “Encompass Connections: Unit 1: How do maps and globes help us?: Cardinal Directions.” Remind students of the importance of knowing how to use directions to locate places on a map. This activity can be found at NystromWorld.com.

Extending

Language arts Play a version of the I Spy game. Choose an object in the room and have students listen to clues you give about what object you have secretly chosen. For example:

- I spy something that is east of my desk and west of the windows.

Continue to give directional clues until students guess the object.

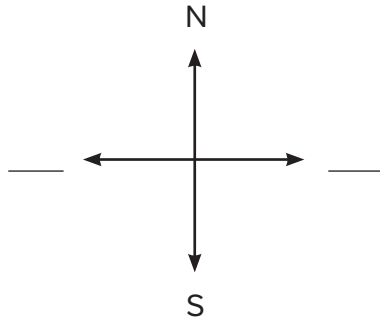
Using Cardinal Directions



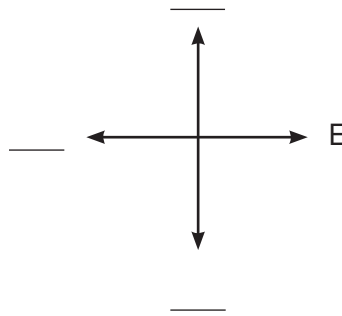
Part A

Complete each compass rose.

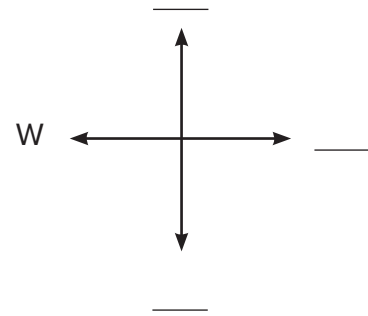
1.



2.



3.



Part B

Find the compass roses on Desk Map 3C. Complete each compass rose with **S**, **E**, and **W**. Then use **north**, **south**, **east**, or **west** to fill in the correct directions below.

4. The Pacific Ocean is _____ of the United States.

5. Ohio is _____ of Pennsylvania.

6. Florida is _____ of the Gulf of Mexico.

7. Texas is _____ of Oklahoma.

8. Oregon is _____ of California.

Find your state.

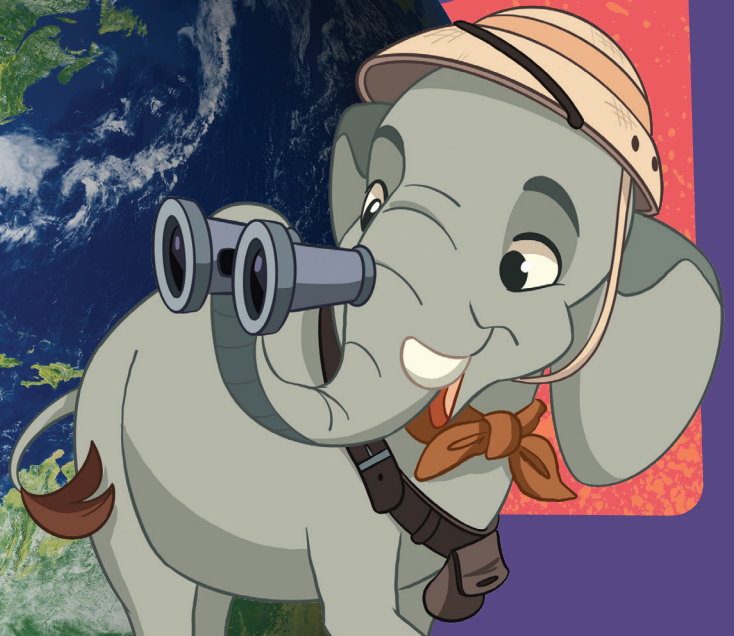
9. What is the name of your state? _____

10. My state is _____ of the Atlantic Ocean.

★ Draw a route through four states. Write a sentence describing the directions you traveled.

NYSTROM
ATLAS

Our Place in the World



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Third Edition of *The Nystrom Map Champ Atlas*

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Printed in Canada

ISBN: 978-0-7825-3071-1

Product Code: NYS0843 v3.01

To order: www.socialstudies.com or 800-421-4246

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How can we find places

We use directions to locate places. There are four main directions on maps and globes: north, south, east, and west.



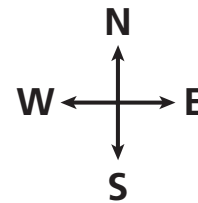
A North is always toward the **North Pole**—no matter where you are in the world.



B South is always toward the **South Pole**—no matter where you are in the world.



C When you're facing north, west is to the left and east is to the right. There are no west and east poles.

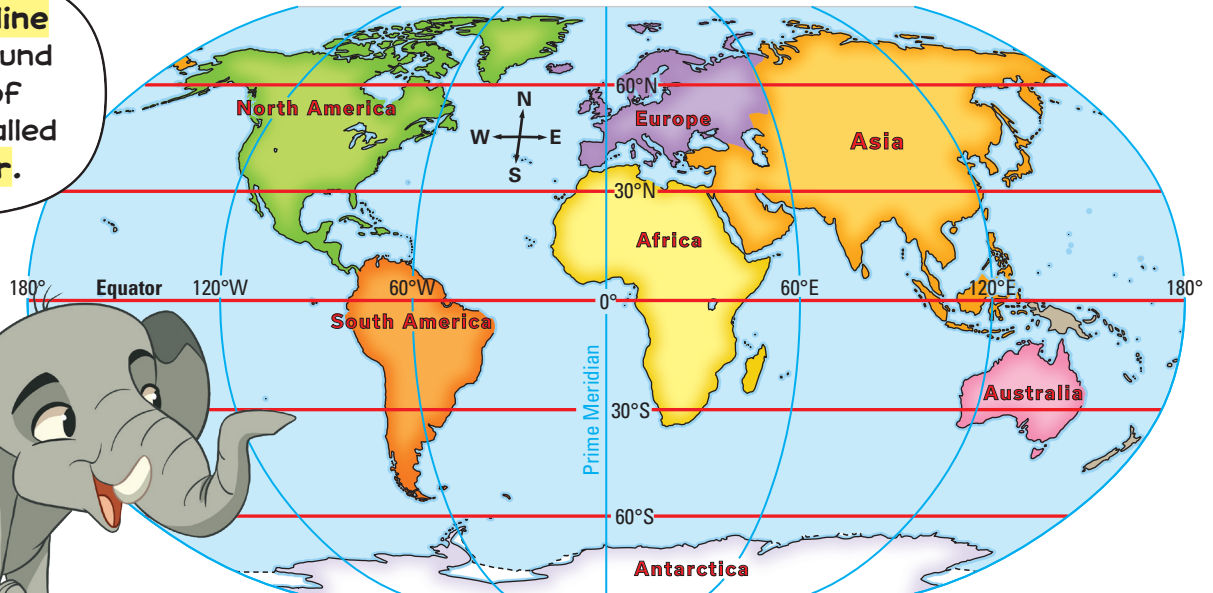
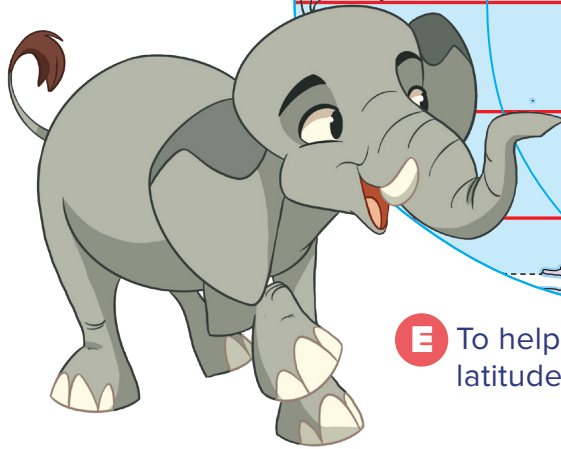


D A **compass rose** is a set of arrows on maps and globes that point north, south, east, and west.

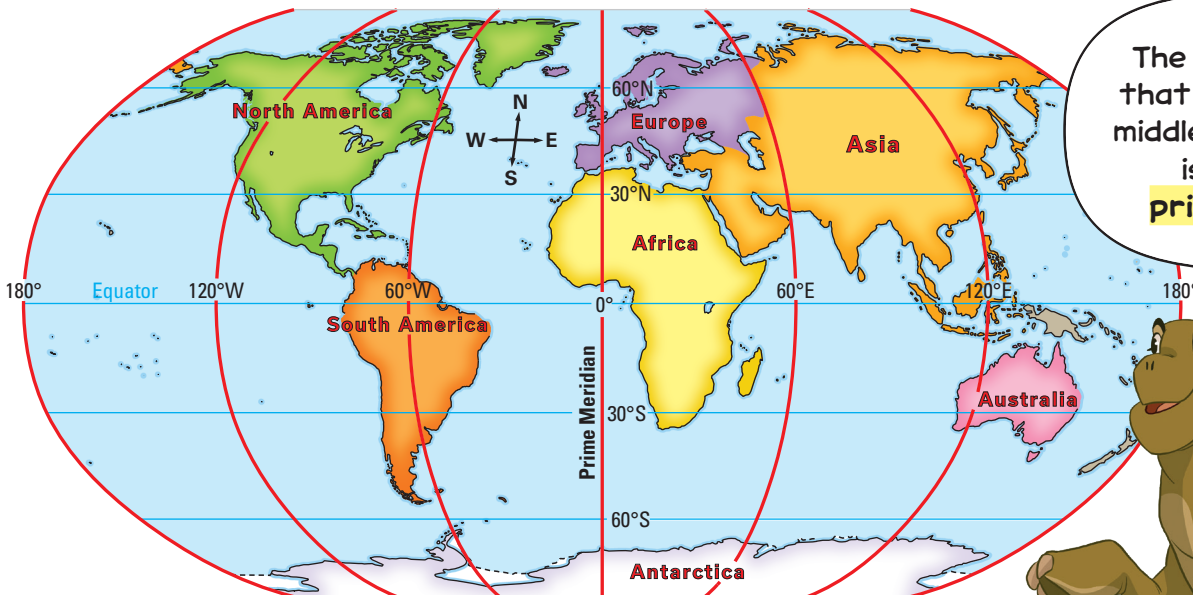


You can travel east or west forever, but you can't travel north or south forever.

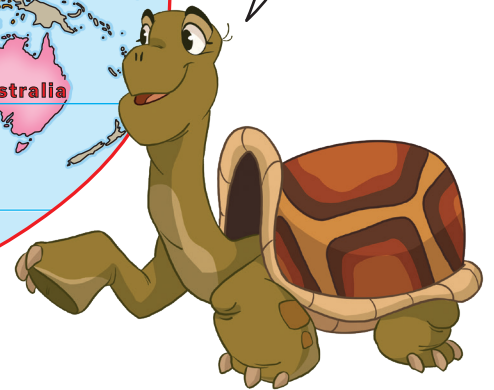
The **latitude line** that runs around the middle of the globe is called the **equator**.



E To help locate places, we use a system of lines called latitude and longitude. Latitude lines run east-west.



The **longitude line** that is often in the middle of world maps is called the **prime meridian**.



F Longitude lines run north-south. Together, latitude and longitude lines form a world **grid**.