

Lesson 164 • Reading a Map

Learning objectives

Children will:

- understand how coordinates work.
- read coordinate maps.
- interpret compass directions.

Australian Curriculum Content Descriptions

Measurement and Geometry

Location and transformation

ACMMG065 Create and interpret simple grid maps to show position and pathways; create a map of the classroom or playground.

Key vocabulary

coordinates, column, row, compass, directions, East, West, North, South

Extra assistance

To help students remember the order of the directions around a compass, teach them a mnemonic device — encoding the abstract information in a more personal way for easier retrieval from their memories. Try these:

Never Eat Soggy Wafers

Naughty Elephants Spray Water

Never Eat Slimy Worms

Worksheet answers

Worksheet 1

- 1 **a** A4 **b** D2 **c** A1 **d** D1
 2 **a** moon **b** smiley face **c** sun **d** arrow
 3 **a-d** Teacher to check
 4 A2, B4, C1, D3

Worksheet 2

- 1 Teacher to check
 2 **a** Africa **b** North America
 c Asia **d** Africa
 e South America **f** South America
 g Europe **h** Asia
 i Atlantic Ocean **j** Indian Ocean
 k Pacific Ocean

Worksheet 3

- 1 **a** A5 **b** D3 **c** C1
 d F2 **e** A3 **f** C4
 2 **a** flamingo **b** ticket entry **c** squirrel
 d gift shop **e** parrot **f** elephant
 3 F1 & F6
 4 D1 & A6
 5 E1 & E6
 6 A1 & A2
 7 (b) a path




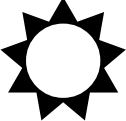


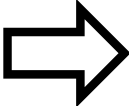

Worksheet 4

- 1 Teacher to check
 2 A4 → D4 → D2 → F2 → F1 → C1 → C3 → A3
 3 **a** North **b** 16 **c** 1600 m
 d B2 **e** Teacher to check

Mathseeds Lesson sequence	TEACH Content and skills	PRACTISE Children will:	APPLY
<i>Animated Lesson:</i> Using Coordinates	Learn how coordinate maps work and use them to find a specific square. Find an item on a map and identify its coordinates. Introduce the compass and reading directions.	find coordinates by row and column, letter and number. Identify what is at a set of coordinates. Find the coordinates for an item on a map. Use compass directions.	Worksheet 1 Coordinates
<i>Directions:</i> Maps, Compass Points, Steer the Car	Understand directions – left, right, up, down. Read a compass in different orientations.	follow given directions. Select the item in the given direction.	Worksheet 2 Compass directions
<i>Coordinates:</i> Colour the Grid, Where in the World?, Read the Map	Use coordinates to identify a square on a grid map.	colour or select the square at the given coordinates. Find the coordinates for a map icon.	Worksheet 3 Map reading
<i>Other topics:</i> Elastics, Square Robots, Falling Joys	Count squares to show or find an area. Answer equations in a given amount of time.	choose squares to show a given area. Count squares to find area. Use mental strategies to quickly answer sums.	Worksheet 4 Word problems
<i>End of Lesson Quiz</i>	Test understanding of lesson content and skills.	complete a 10 question quiz to earn a reward game.	<i>Reward game:</i> Monster Mayhem



Name _____

4				
3				
2				
1				
	A	B	C	D

1 Write the coordinates for

a the star. _____

b the heart. _____

c the cloud. _____

d the lightning. _____

2 What shape is at these coordinates?

a C4 _____

b C3 _____

c B2 _____

d B1 _____

3 Draw these shapes at these coordinates.

a a triangle at D4

b a circle at C2

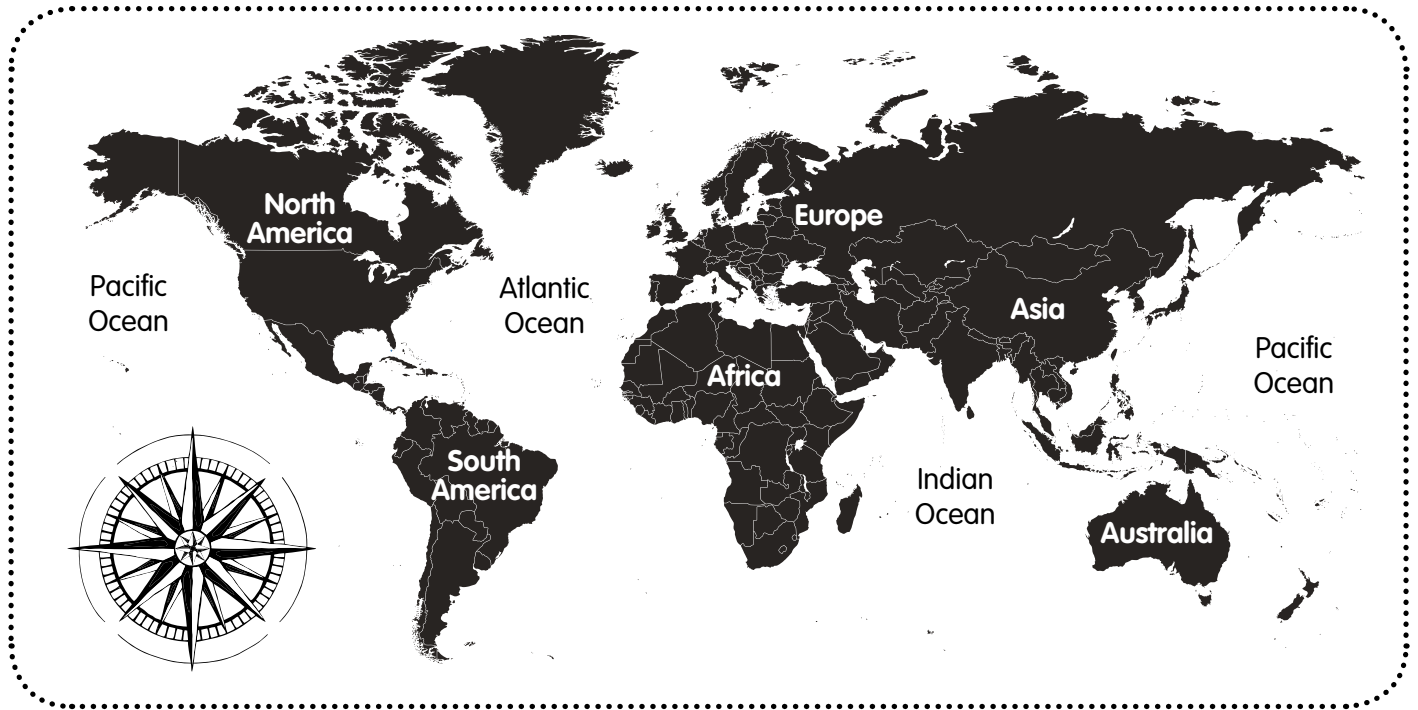
c a rectangle at B3

d a square at A3

4 Which coordinates have no image now?



Name _____



- 1 Label the points on the compass: North, South, East, West.
- 2 Use this map of the world and the compass to answer these questions.
 - a Which continent is south of Europe? _____
 - b Which continent is west of Europe? _____
 - c Which continent is north of Australia? _____
 - d Which continent is west of Australia? _____
 - e Which continent is east of Australia? _____
 - f Which continent is south of North America? _____
 - g Which continent is east of North America? _____
 - h Which continent is west of North America? _____
 - i Which ocean is east of the Americas and west of Africa?

 - j Which ocean is south of Asia and east of Africa? _____
 - k Which ocean is east of Asia and west of the Americas?



Name _____

6						
5						
4						
3						
2						
1						
	A	B	C	D	E	F

1 Write the coordinates for these items.

a monkey _____

b owl _____

c fox _____

d bear _____

e lion _____

f koala _____

2 What is at these coordinates?

a A4 _____

b B6 _____

c C3 _____

d D6 _____

e B1 _____

f F4-5 _____

3 Where are the restrooms located? _____ & _____

4 Where can you go for first aid? _____ & _____

5 Where can you go to eat? _____ & _____

6 Where are the hippos? _____ & _____

7 What are the empty squares for?

(a) more animals (b) a path (c) it's a mistake



Name _____

- Draw Sara's usual walking route on the map.
Start at home in A4 and go east to the corner shop.
Turn right and head south to the stadium.
Turn left and head east to the lighthouse.
Turn right and walk to the hotel, then turn right and go to the bridge.
Head north to the factory and then walk west to the airport.

4						
3						
2						
1						
	A	B	C	D	E	F



- Write the coordinates for Sara's walking route.

_____ → _____ → _____ → _____ →
 _____ → _____ → _____ → _____

- Use the map to answer these questions.

a Which compass direction does Sara walk in to get home from the airport? _____

b How many squares on the map does Sara walk through? _____

c If each square is 100 m, how far does Sara walk? _____

d What are the coordinates for the school? _____

e Draw a park in the square at A1.