



CALCULATE UNKNOWN ANGLES

AC9M6M04

ANGLES ON A STRAIGHT LINE

maths MAZE

Without using a protractor, calculate the value of the unknown angle. In the maze, each answer will lead you to the next problem. To keep track of your answers, colour your way from start to finish, recording the letter sequence you followed in the table below.

START

A 95° $?$

B 64° $?$

C 47° $?$

D 71° $?$

E 127° $?$

F $?$ 148°

G 11° $?$

H 127° $?$

Connections: START to A (90°), A to B (75°), A to C (90°), A to D (85°), B to D (134°), B to E (116°), C to D (109°), C to F (133°), D to E (35°), D to G (105°), E to G (89°), E to H (53°), F to G (197°), F to H (169°), G to H (32°).

Keep scrolling to see what's included!

WANT TO TURN CALCULATING UNKNOWN ANGLES INTO A FUN CHALLENGE?

♥ All six activities are aligned to the outcome: **(AC9M6M04)**

♥ Tasks range in difficulty from easy to challenging!

♥ Activities are interactive, hands-on, and FUN!



AC9M6M04

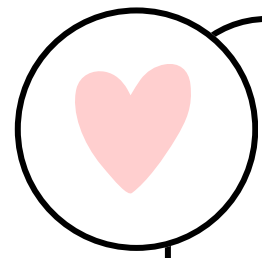
ANGLES
PROBLEM SOLVING

WOULD YOU rather...

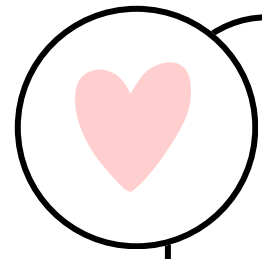
Read the word problems then colour the box to show if you would rather do option A or option B. Explain your thinking behind each decision.

	OPTIONS	WHY?
A	Go down a skateboard ramp with a 30° incline	
	OR	
B	Go down a skateboard ramp with a 45° incline	
	OR	
A	Eat a slice of your favorite pizza with an angle of 60°	
	OR	
B	Eat a slice of your favorite pizza with an angle of 90°	
	OR	
A	Go down a waterslide with a 25° slope if you want a gentle splash	
	OR	
B	Go down a waterslide with a 45° slope if you want a gentle splash	
	OR	
A	Throw a frisbee at a 35° angle	
	OR	

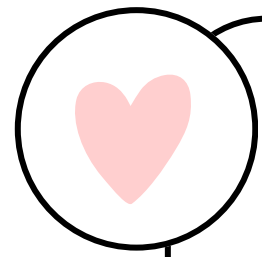
WANT TO TURN CALCULATING UNKNOWN ANGLES INTO A FUN CHALLENGE?



NO planning required for outcome **AC9M6M04**



No prep, just print and go!



Aligns perfectly to the **Year 6 Measurement & Space Assessment Pack!**



AC9M6M04

ANGLES ON A STRAIGHT LINE **SUPER sort**

Without using a protractor calculate the value of the unknown value, then cut out each card and sort them according to whether the unknown answer is acute or obtuse. Before gluing them, arrange the cards in each column from least to greatest.

ACUTE	OBTUSE

AC9M6M04

ANGLES ON A STRAIGHT LINE **SUPER sort**
→ PROBLEM CARDS

unknown angle = _____ A

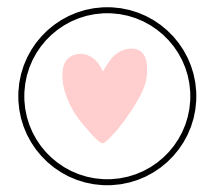
unknown angle = _____ B

unknown angle = _____ C

unknown angle = _____ D

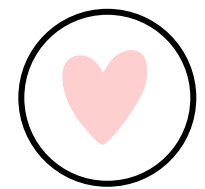
CONTENTS

What's included in this pack?



SIX engaging activities for the outcome **AC9M6M04**:

- + True or False
- + Maths Match
- + Super Sort
- + Maths Maze
- + Would You Rather?
- + Thinker's Keys



Answer Key for teachers



HOW YOU CAN USE THIS RESOURCE

- Use in class for **hands-on practice** calculating unknown angles
- Assign as **homework** to reinforce understanding of straight line, point, and vertically opposite angles
- Mix and match activities to **differentiate learning** for students of varying skill levels



LOOKING FOR MORE?



Bring lessons to life with the **Year 6 Measurement & Space Activity Bundle!** Enjoy 42 interactive activities motivate, excite, and challenge students while covering every curriculum goal!

YEAR 6

MEASUREMENT & SPACE ACTIVITY BUNDLE

THE SYDNEY TEACHER

ACTIVITIES

ANGLES ON A STRAIGHT LINE **maths MAZE**

INTERPRET & USE TIMETABLES **TRUE OR FALSE**

Study the ferry timetable, then cut out the problem cards and sort them according to whether they are true or false. Before gluing them, arrange the cards in each column in alphabetical order.

Destination	06:15	06:45	07:15	07:45	08:15	08:45	09:15
Circular Quay	06:21	06:57	07:27	07:57	08:27	08:57	09:27
Birchgrove	06:23	07:03	07:33	08:03	08:33	09:03	09:33
Greenwich Point	06:24	07:06	07:36	08:06	08:36	09:06	09:36
Waverley	06:25	07:09	07:39	08:09	08:39	09:09	09:39
Cockatoo Island	06:26	07:14	07:44	08:14	08:44	09:14	09:44

TRUE **FALSE**

A ferry departing Circular Quay at 07:15 will arrive at Birchgrove at 07:33. A

If you miss the 07:03 ferry from Birchgrove to Greenwich Point, the next ferry comes at 07:33. D

If you are at Greenwich you can catch a ferry to Cockatoo Island at 7:00. C

The last departure from Circular Quay to Cockatoo Island is at 10:14. B

The first departure from Circular Quay is at 06:45. E

40+ ACTIVITIES