



AC9M5ST02

INTERPRETING LINE GRAPHS

MATHS match

PROBLEM CARDS

Find the card with the line graph that matches this area of investigation

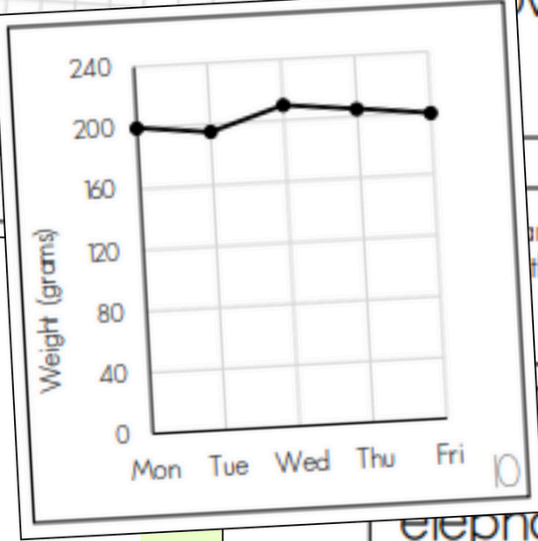
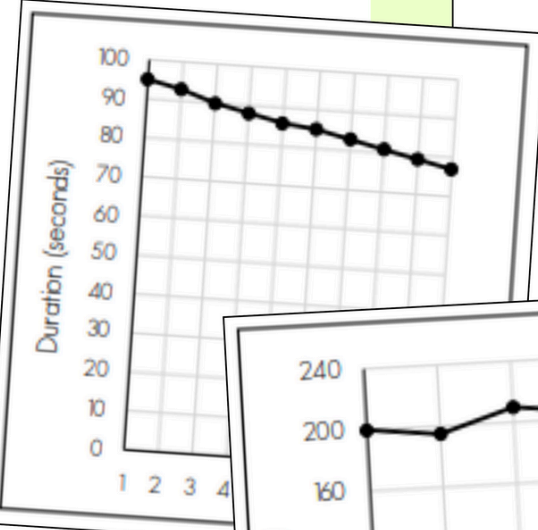
Average volume of lemonade sold over a day

G

Find the card with the line graph that matches this area of investigation

Total amount of money saved in 4 weeks

H



Find the card with the line graph that matches this area of investigation

Average weight of newborn elephant in the first 4 weeks

I

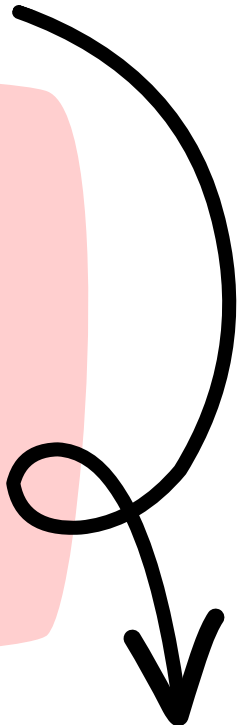
Find the card with the line graph that matches this area of investigation

Scores on 10 spelling tests

J

INTERPRET LINE GRAPHS

Keep scrolling to see what's included!



ENGAGE STUDENTS AS THEY LEARN TO INTERPRET LINE GRAPHS REPRESENTING CHANGE OVER TIME!



All six activities are aligned to the outcome: **(AC9M5ST02)**



Tasks range in difficulty from easy to challenging!



Activities are interactive, hands-on, and FUN!



AC9M5ST02

INTERPRETING LINE GRAPHS

maths MAZE

For each question, study the line graph and determine the possible area of study. 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: Bananas sold

B: Children per family over time

C: Value of a house over 10 years (1000)

D: Temperature (°C)

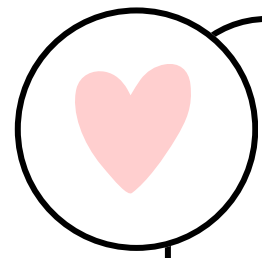
E: Heart rate during exercise (bpm)

F: Monthly computer sales

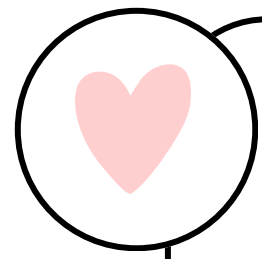
G: Student X's results across spelling tests

H: Population size in a country town

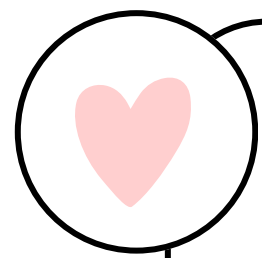
ENGAGE STUDENTS AS THEY LEARN TO INTERPRET LINE GRAPHS REPRESENTING CHANGE OVER TIME!



NO planning required for outcome **AC9M5ST02**



No prep, just print and go!



Aligns perfectly to the **Year 5 Statistics and Probability Test Pack**



AC9M5ST02

INTERPRETING LINE GRAPHS

TRUE OR FALSE

Study the graph below, then cut out the problem cards, sorting them according to whether they are true or false. Before gluing them, arrange the cards in each column in alphabetical order.

TEMPERATURES IN 5P

TIME	TEMPERATURE (°C)
9AM	9.5
10AM	10
11AM	10
12PM	11.5
1PM	12
2PM	13
3PM	13.5

TRUE	FALSE

The temperature reached 14°C **A**

The temperature was the same at 10am and 11am **B**

INCLUDES ALL THESE AND MORE!

AC9M5ST02

INTERPRETING LINE GRAPHS

TRUE OR FALSE

Study the graph below, then cut out the problem cards, sorting them they are true or false. Before gluing them, arrange the cards in each alphabetical order.

TEMPERATURES IN 5P

TIME	TEMPERATURE (°C)
9 AM	9.5
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2 PM	13.5

TRUE	FALSE

AC9M5ST02

INTERPRETING LINE GRAPHS

maths MAZE

For each question, study the line graph and determine the possible area of study. 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:** Bananas sold (Graph: U-shaped curve)
- B:** Children per family over time (Graph: Exponential growth)
- C:** Value of a house over 10 years (000) (Graph: Steady upward trend)
- D:** Student population at a high school (Graph: U-shaped curve)
- E:** Heart rate during exercise (bpm) (Graph: Fluctuating line)
- F:** Monthly computer sales (Graph: Fluctuating line)
- G:** An onion's growth in 10 months (Graph: Steady upward trend)
- H:** Student X's results across spelling tests (Graph: Fluctuating line)
- I:** Grades in a year (%) (Graph: Fluctuating line)
- J:** Cell phone battery life over a day (Graph: U-shaped curve)
- K:** Children at a park in the morning (Graph: Fluctuating line)

FINISH

A				
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AC9M5ST02

INTERPRETING LINE GRAPHS

MATHS match

AC9M5ST02

DATA PROBLEM SOLVING

THINKER'S keys

THE ALPHABET KEY
List as many words as you can from A to Z that relate to interpreting data displays

THE ANSWER KEY
If "increasing" is the answer, what might the area of interest be? Think of 10 possibilities

THE BRAINSTORMING KEY
Brainstorm all the real life situations where you see data displays

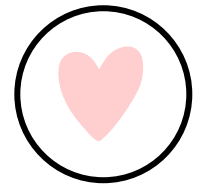
THE VARIATIONS KEY
Think of at least 10 areas of investigation where a line graph is a good choice for a data display

THE CONSTRUCTION KEY
Conduct research on how much an African elephant weighs on average across their lifetime. Create a graph to represent this data

THE INTERPRETATIONS KEY
A student believes that a line graph can best display the kinds of pets the class has. Explain why this is incorrect and suggest a better data display

CONTENTS

What's included in this pack?




SIX engaging activities for the outcome **AC9M5ST02**:

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



Answer Key for teachers



AC9M5ST02

GRAPHING DIFFERENT DATA

WOULD YOU rather...

ANSWERS Then colour the box to show if you would rather option A or B behind each decision.

	OPTIONS	WHY?
A	Make a line graph of your class's favourite movie genre (action, comedy, sci-fi, etc.)	A – a line graph cannot be used to show categorical data such as movie genres
	OR	B – a pie chart is able to show categorical data, with segments for each movie genre
B	Make a pie chart of your class's favourite movie genre (action, comedy, sci-fi, etc.)	
	OR	
A	Make a line graph of how many pages you read each day	A – as reading habits over time is continuous data, it would be best represented as a line graph
	OR	B – a column graph is most effective for data with separate categories, so would not be appropriate for tracking trends over time.
B	Make a column graph of how many pages you read each day	
	OR	
A	Make a column graph of how many kids like	Answers will vary, as both data displays are appropriate for this kind of categorical data
	OR	

HOW YOU CAN USE THIS RESOURCE

- Assign activities based on students' ability levels to **support differentiated learning**
- Use the six activities as **interactive stations for group work or rotations**
- Reinforce concepts and check understanding** with ready-to-go assessment tasks



LOOKING FOR MORE?



Say goodbye to assessment stress with the **Year 5 Statistics & Probability Test Pack!** Ready-to-go pre and post-tests, easy tracking spreadsheets, and full V9.0 curriculum alignment make planning a breeze and learning a blast for your students!

YEAR 5

STATISTICS & PROBABILITY TEST PACK

THE SYDNEY TEACHER

The image shows two overlapping test pages. The top page is titled 'STATISTICS' and includes a table for 'Homework should be banned' with a pie chart. The bottom page is titled 'PROBABILITY' and includes a spinner diagram and questions about chance experiments. Both pages have 'Name:' and 'Date:' fields and a 'POST TEST' section with a grid for tracking progress.

10 PRINTABLE TESTS