









PLAN
INVESTIGATIONS
& IDENTIFY
PROBLEMS TO
COLLECT DATA

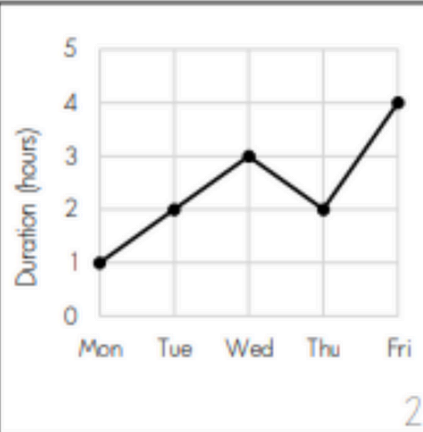
AC9M5ST03











RESEARCH QUESTIONS & DATA DISPLAYS

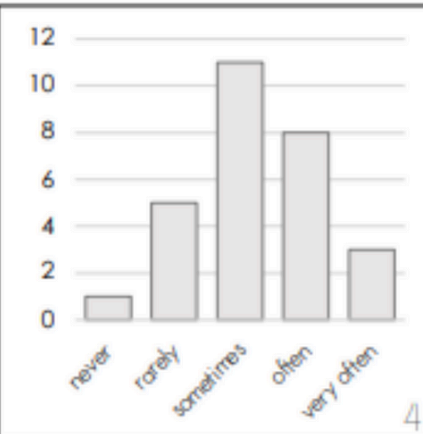
MATHS match






PROBLEM CARDS

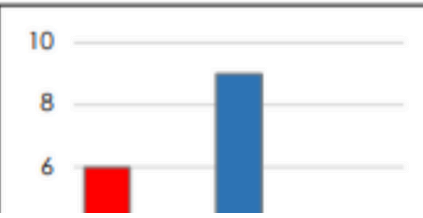
Mon		 = 1
Tue		
Wed		
Thu		
Fri		







Keep scrolling to see what's included!

GET STUDENTS EXPLORING AS THEY PLAN AND CONDUCT REAL INVESTIGATIONS WITH DATA!

♥ All six activities are aligned to the outcome: **(AC9M5ST03)**

♥ Tasks range in difficulty from easy to challenging!

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

The image shows a collection of educational supplies: a clear plastic tray with colorful letter tiles, a white bowl filled with various colored markers, and a pink and blue spiral-bound notebook. In the foreground, a worksheet titled 'CONDUCTING INVESTIGATIONS TRUE OR FALSE' is displayed. The worksheet includes a pie chart titled 'Students Favourite Subjects' with the following data:

Subject	Percentage
Physical Education	16%
Art	13%
Science	25%
English	46%

The worksheet also features a table with two columns labeled 'TRUE' and 'FALSE' for recording data. Two callout boxes provide instructions: 'When collecting data on this topic, surveying just a few students in the class will give an accurate picture of the students' favourite subject' and 'The first step in collecting this data is to draw a graph and fill it in as students respond'.

GET STUDENTS EXPLORING AS THEY PLAN AND CONDUCT REAL INVESTIGATIONS WITH DATA!



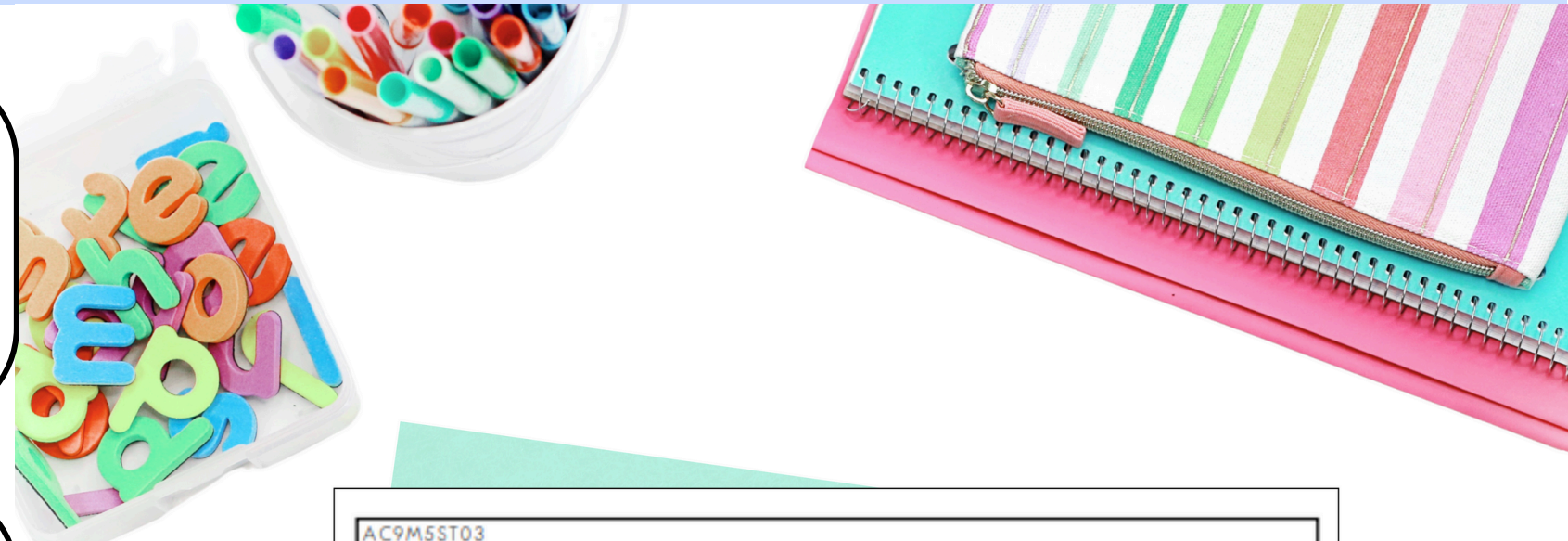
NO planning required for outcome **AC9M5ST03**



No prep, just print and go!



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



AC9M5ST03

STATISTICAL INVESTIGATIONS THINKER'S *keys*

AC9M5ST03

THE ALPHABET KEY

List as many words as you can from A to Z that you use when doing a survey

THE SYDNEY TEACHER

AC9M5ST03

THE ANSWER KEY

If the answer is a column graph, what is the question?
Think of at least 10 possibilities

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THE BRAINSTORMING KEY

Brainstorm at least 10 effective questions to ask about the class' favourite school subjects

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THE VARIATIONS KEY

A researcher is creating a column graph to show data about types of sandwiches. Draw 5 graphs that could represent their results

THE SYDNEY TEACHER

INCLUDES ALL THESE AND MORE!

AC9M5ST03

PLANNING INVESTIGATIONS

SUPER SORT

PROBLEM CARDS

Should students play sport every day? **A**

On average, how many hours of physical education do you engage in?

How many hours of sport do you believe all children should engage in? **C**

What physical activity do you do most often?

On average, how many minutes do you spend being active across lunch and recess? **E**

Do you prefer indoor or outdoor sports?

Is basketball better than martial arts? **G**

How many physical education classes do you take?

AC9M5ST03

CONDUCTING INVESTIGATIONS

TRUE OR FALSE

Study the data display, 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.

Students Favourite Subjects

TRUE	FALSE

AC9M5ST03

RESEARCH QUESTIONS & DATA DISPLAYS

maths MAZE

Match each data display to the research question. The correct answer will lead you to the next problem. To keep track, start to finish, recording the letter sequence you follow.

START

How much fruit do you eat per day? **A**

Do you eat fruit every day? **B**

How many siblings do you have? **C**

What day were you born on? **D**

What is your favourite flavour croissant? **E**

How do you travel to school most days? **F**

Do you drive to school each day? **G**

What is your favourite subject? **H**

What is your favourite colour? **I**

What was the monthly rainfall in your town (in mm)? **J**

FINISH

A

AC9M5ST03

RESEARCH QUESTIONS & DATA DISPLAYS

MATHS match

PROBLEM CARDS

7

Bluey	
Spiderman	
The Simpsons	
Paw Patrol	

8

9

10

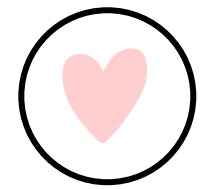
11

12

1	2	3	4	5

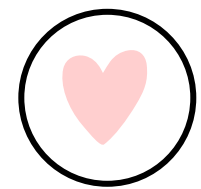
CONTENTS

What's included in this pack?



SIX engaging activities for the outcome **AC9M5ST03**:

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



Answer Key for teachers

AC9M5ST03

RESEARCH QUESTIONS & DATA DISPLAYS

MATHS match
→ PROBLEM CARDS

Find the card that shows the most appropriate data display for this research question:

What is your favourite colour? **A**

Find the card that shows the most appropriate data display for this research question:

What are the hair colours of the students in 5D? **B**

Find the card that shows the most appropriate data display for this research question:

How many bananas did you eat this week? **C**

Find the card that shows the most appropriate data display for this research question:

On a scale of 1 to 5, how much do you enjoy eating bananas? (1 = hate, 5 = love) **D**

Dreamworld	
MOVIE WORLD	
SEA WORLD	
WILD LIFE	

Red	6
Purple	4
Blue	9
Pink	1
Green	2

Find the card that shows the most appropriate data display for this research question:

Find the card that shows the most appropriate data display for this research question:

HOW YOU CAN USE THIS RESOURCE

- Help students ask questions, collect data, analyze, and communicate findings
- Provide fun, hands-on activities suitable for all skill levels
- Cut planning time with ready-to-use activities and included answer keys



AC9MSST03

POSING & REFINING RESEARCH QUESTIONS

WOULD YOU rather...

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

	OPTIONS	WHY?
WOULD YOU RATHER...	Research how many stray dogs and cats there are in Australia A <input type="radio"/> OR <input type="radio"/> B	A – too broad and would be almost impossible to find accurately B – specific and local, so it would be doable
	Research how many dogs and cats are ready for adoption at an animal shelter close to you A <input type="radio"/> OR <input type="radio"/> B	
	Use the research question: "What is the most popular sport in our class?" A <input type="radio"/> OR <input type="radio"/> B	A – this is a clear, measurable question. You could collect data by surveying each student and then tallying the results to see which sport is chosen most often.
	Use the research question: "Why is soccer the best sport?" A <input type="radio"/> OR <input type="radio"/> B	B – this is based on opinion. It assumes that soccer is the best and doesn't allow for fair or accurate data collection.
	Investigate if students in the class eat healthy food A <input type="radio"/> OR <input type="radio"/> B	A – this is too broad and hard to measure. "Healthy food" can mean different things to different people, so it would be difficult to collect accurate data.
	Investigate how many students bring fruit in their lunchbox each day A <input type="radio"/> OR <input type="radio"/> B	B – this is a clear, measurable question.

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 sample pages from the test pack. The left page is titled 'STATISTICS' and includes a 'PRE TEST' section with a table for 'Homework should be banned' and a pie chart. The right page is titled 'PROBABILITY' and includes a 'POST TEST' section with questions about chance experiments involving a 6-sided die and a spinner.

10 PRINTABLE TESTS