

Ideas using literature session

Demonstration Book was Shoes from Grandpa by Mem Fox

The Man from Snowy River

by Banjo Patterson

What is “a thousand pounds”?

How many horses were there to start with? How many at the end?

How many when you add the wild bush horses and the chasers? How many riders/horses?

How long so you think the ride actually took?

“twice as steep”/“twice as rough” – what does that mean? Measuring

“wheel them to the right” – right and left

Beneath, between, further, distant

How long is your stride? Who has the longest/shortest stride? How fast is a racing pace? How fast can you race?

Different types of horses, how could you sort them?

I am not Sleepy and I will not go to Bed

By Lauren Child

Bed times, wake up – what is late?

Falling asleep routines → gather data , represent data (how?)

Bath/shower..when? How long?

Minutes..What can you do in a minute?

Volume – room in a bath, displacement of water

Illustrations – patterning – design pyjamas

Map of Mt Coot-tha Botanical Gardens

Shape

Direction

Location

Shortest Distance (measurement)

Walking: time (steps comparison etc)

Maze (no overlapping to go around whole area – is it possible – least walking distance)

Estimation and Prediction (how long, distance and time)

How many hours is it open? Why those hours?

Plan a timetable for a visit.

Sort things in the gardens and explain why...look at sub groups.

Look at telephone numbers – group – are any digits used for often?

Mapping – keys – why do we use them – other maps

Plot a path...plot a path matching timetables from above?

Starting in particular places, alternate routes to chosen destinations, what do I pass through.

Areas of leaves, perimeters of leaves, leaf symmetry

In the Bush

by Roland Harvey

Investigations: Directions, Distance/Length, Time, Number (Counting), Positional Terms (over, under, near, in, around, about), aerial mapping, stars (sky mapping)

Questions:

How far..., How many.....,

Camping – How much petrol...,

Skiing – How fast...., How far...

Catering – How many party pies?

Estimate – How many people dancing on the roof...

“Dad said we should move campsite” Why? Where would the quieter spot be?

Drawings – Hidden Caves... Tunnels....

Cooking- How long do we need to cook the potatoes? In a campfire? In a saucepan? In a microwave?

Five times – jumping off a rock 5 times

Touching the bottom – how deep? How could you find out how deep something is?

Travelling: by horse, swimming, canoe, walking, skiing, bike – times, energy, distance etc

Cereal Boxes

How many kilojoules should students eat? How many boxes could they eat?

Proportions – sugar, fat, fibre to kilojoules

Measurement – cups, tablespoons, teaspoons

Shape

Dan’s Grandpa

by Sally Morgan

Reflection (p1), direction, perspectives, line, time, angles, patterns, tides, footprints, recording data on language, comparisons, classifications, recording,

temperature changes → temperature change journal – keeping a record of the temp. At certain times of the day over a month/season etc. Comparisons → averages for times of the year – prediction what the temp might be tomorrow/ next week/ next month.

Who's been to hospital → temperatures, pulses, distance – how far did Dan have to run? How far to our hospitals.

Sorting – lollies

Dan was picked up at lunch, how many hours did he miss, how many hours to go...writing timetables for the classroom.

Fractions: toast...How much homey on one piece, three pieces? What if he had peanut butter (or non-peanut something if allergies)...would he use the same amount?

We've all got Belly Buttons

by David Martin

Elephants → Count ears and tusks – discuss “hidden” ears and tusks

Monkeys → How many ways can you arrange the monkeys? Eg stand, sit, upside down, stand, sit

Patterning & positional terms

Giraffes → which giraffes have the longest necks? (measuring non-straight objects). How many spots? Why can't the giraffe reach the tree...How could it reach the tree?

End pages – patterning?

Bellybuttons: - Are they all the same (inny-outy)? Heights from ground, heights from ground related to overall height.

Who Sank the Boat?

by Pamela Allen

Playdough representations of the sizes of the animals.

How many of each animal to sink a toy boat?

Spaghetti activity, - Styrofoam cups, spaghetti and sinkers/ball bearings.

Designing boats. Same amount of material eg paper, card, ..what is the best design to hold the greatest weight?

Two Summers

by John Heffernan

Calendars – seasons , weeks months time

Measuring – Distance between logs, speed, angle direction, time, heights of horses (suitable & safe for children)

Space - Preparing and mapping a course, coordinates on graph paper eg log at C5 etc

Comparison – Giant eagle to bird – Ratio ; wing span comparisons, egg sizes and shapes (QLD Museum could help with an egg loan).

Experiment and predict: Rocking of toy boats, strength and angles to tip over, weight on boat to tip, placement of weight on boat, boat floats or sinks once tipped, number of times rocked before **sinking, comparison of boat sizes.**

Depth – concept – what is depth?, to deep, where would measuring depth be useful eg baths, lakes?

INVESTIGATION: Volume of water in a section of the river. Comparison of volume in different containers & different shaped containers

Mustering: counting cattle in 2's – 4 legs; patterning eg 3 brown cows, 1 black. Multiplication table –

3 brown	1 black
6 brown	2 black
9 brown	?

Feeding1 bale = five cows; bottle of milk for calves eg etc

Counting on Frank

by Rod Clement

“Ink in the pen...average ballpoint pen draws a line 2060m long, before ink runs out”

- Estimate with a gel pen, highlighter, ...comparison of averages..represent and graph
- What about a lead pencil..before becoming blunt
- Could also do this with packets of paperclips, twisties ..average number, mass

Questions. How are you going to test this? How are you going to represent this? Which pen would you buy and why?

Chance and data – measurement and estimation, number

Children work in groups and they represent the lines and then make a graph. Compare the different pens & discuss first and order the pens...Best value to least value, Longest writing to shortest amount of ink.

Mr Archimede's Bath

by Pamela Allen

Activities – measurement, data collection, calculations, formula/pattern/relationship building, observations, critical analyses, synthesis

Why the water level increases in the tub (container) when different animals/members are out into it.

How much the water level increases with dipping of different shapes/sizes of animals.

Can we measure the water level or volume of water displaced?

How can we relate the amount of water increase to the different sizes/shapes/ volumes/weights of objects/people/animals?

Can we formulate an equation?

Can we now reason between amount of water spilt (displaced) to different volume/weight/mass?

Calculation of volume – Archimede's Principle.

FINALLY – DID WE

COMMUNICATE

REPRESENT

CONNECT

