

How many penguins do you think there are? Why? How? Try to answer all calculation questions throughout book. Ask this question at start of each page. Gather thoughts on their answers.	How many Penguins are there each day? – List and record What happens when we take out the 0 from the middle of a number? Use opportunity to discuss the importance of zero as a place value holder.	How do we count the penguins quicker? How did dad organise them in the book? How can we organise the penguins to help us. Discuss different ways of organising the penguins. Use character counters to help support their thinking.	How can I share out the penguins equally? What happens when there is an odd number of penguins? Can I Share out halves, quarters, thirds? What does that look like? Using the number of penguins in the book as a stimulus, share out into halves, quarters etc. Discuss left over penguins where applicable,	What currency do we use in United Kingdom? What other currencies do you know? What other currencies were on the book? Use opportunity to discover topic related currencies. Can explore values too if ability allows.
First and last page – What do	Maths Through	Potential of the story	Key language	How many penguins are there at
you think will happen next?	Stories	Time Ordering numbers	Grouping/Sharing	each date? Can you make a
certain dates and do you		Estimate and predict	Arrays	answers?
think it will be the same for	"365 Penguins"	Addition/multiplication pattersn	Sorting	Discuss layout of calendars and
the polar bears?	ovo r enganis	Odd/Even	Dates/Special occasion	dates. Find how many penguins for
Encourage your child to	Dur loop Luo	Sort/Snare Money/currencies	Patterns of Number	each day and record.
Do they see a pattern on how	By: Jean-Luc	End of 1 <sup>st</sup> Level	Per cent – 100	
many penguins will come	Fromental		Ordinal Numbers – first, second etc.	
next? Discuss.			No more/less	
When dad made the boxes, What shape would the box be? How many penguins are in each box? How can we organise the penguins in the boxes?	Instructions		Can you make a cube using paper or lego	Look at these numbers 1000, 100,
			bricks? Arrange them like the penguins in	10, 0.
	<b>1.</b> Click on link below to access the story online		the book? How many blocks did you use? How did you work it out? Use any brick/blocks you have to discuss and explore cubes. Cubes have the same Length, Breath and Height.	What's the pattern? How do we
	https://www.youtube.com/watch?v=ZQIOCxxMbBM			Use Gattegno Chart (found online) to explore patterns and recognise simple number sequences and encourage them to explain the rules they have applied.
	<b>2.</b> Each box is filled with questions (in red) you can ask			
	your child			
	<b>3.</b> The Blue writing are tips and hints to activities you can set up at home using the book to prompt ideas.			
Display your data from number of penguins per day on a chart. Discuss what chart would be	<ol> <li>Children can work on the activities over the course of the week. Do what they can, when they can.</li> </ol>		Do you have any daily routines that are	
			the same as the family in the book?	
	Share your creations and photographs with your teacher.			Based on an idea from Lynda
best to display results – bar,			Opportunity to write their own daily routing	Keith Education and developed
pictogram, ime, pie etc.			their day	by Numeracy Sac Team, East Avrshire Council



## Maths Through Stories

"365 Penguins"

## By: Jean-Luc Fromental

## Resources

- Estimation station animal counters and station for exploring
- Place Value Grids
- Counting in 2's, 5's, 10's etc. sorting station
- Sorting and grouping trays/ Array opportunity using counters
- Pound and dollar currency examples to show value
- Variety of different sized boxes
- Daily timetable and monthly calendar for children to record penguins each day
- Base 10 unit cubes
- Gattegno and place value arrow cards
- Chart Paper