

# DOCUMENTING OUR MATHEMATICS CHALLENGE LEARNING IN 2023!

Why do we want to jump on board with the 2023 Mathematics Challenge?

Are we going to choose to take the challenge of a Set Investigation or own inquiry? Why?

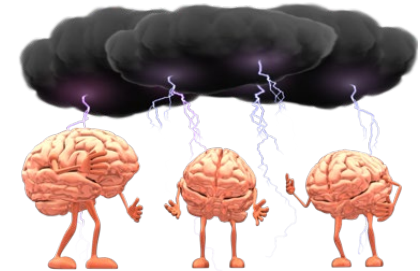


What's the "title" of our investigation – what's our key question we are investigating? Why did we choose this particular one?



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Let's brainstorm the learning steps we think we will need to take for this investigation. We could document it as a mindmap, a list or any other way that helps us capture your thoughts.



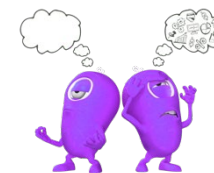
Let's share our thinking with another adult/class and get their feedback. Then we will need to consider and act on their feedback and make any adjustments to our plan.

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**What mathematics do we already know that will help us with the various steps we have identified?**



**What mathematics will we need that we don't know yet? Where, how or who do you think we could access this learning from?**



**How are we going to collect our learning evidence as we go?**

We need to have learning evidence that will show what we did and what we found. It could be videos, photos, paper evidence, learning samples, notes, working outs, data collections and data displays – anything that tells the story of our learning!

Most learning teams say it helps them to think about what they will collect at the beginning AND where they will stick it, so they can keep all their fantastic learning in one place!



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# LEARNING JOURNAL



Choose how and where you are going to capture the “daily” learning evidence...

It could be something you do as a whole group, individual or pairs of children taking turns

Key questions to ask and document during and at the end of each session...

(could be done through text, video, photos, images)

What are we wondering/investigating today?

What did we do?

What did we learn/find?

What’s our theory/ies?

What are we wondering / going to do next?

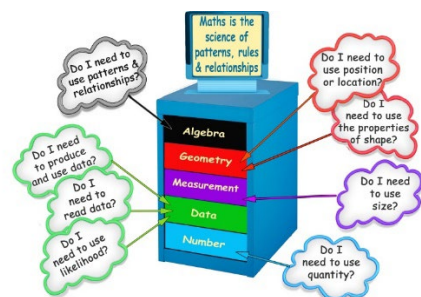
What challenges did we face?

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## CHALLENGE LEARNING REFLECTIONS...

### MATHEMATICAL REFLECTIONS

What mathematics did we learn by undertaking this investigation?  
How, where or who did we learn it from?



Why did this mathematics matter?  
What did it help us do?

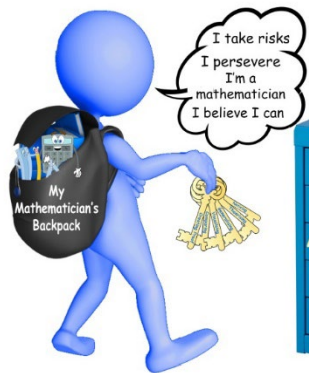
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**What mathematical questions  
do we have now?**



**What are we wondering?**



**How have we changed or  
developed as mathematicians  
by undertaking this  
investigation?**



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REFLECTIONS ON YOUR LEARNING	
<p>What learning strategies worked well for us during this investigation? Why?</p> 	
<p>What challenges or difficulties did we face? How did we deal with them?</p> 	
<p>If we were doing this investigation again (or something similar) would we do anything differently?</p>	

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### INVESTIGATION CONCLUSIONS

So what did we find out? What were the results or the findings of our investigation?



Can we make any generalisations? Is there anything we learnt that we could apply and use in other mathematical situations?

**Remember maths is cool –**  
because usually if we know one thing it will help us also know and do other things!



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<p>So what? Why did our investigation matter to us, to others or to the community?</p> 	
<b>ACKNOWLEDGEMENTS</b>	
<p>Is there anyone who helped us with our investigation that we need to acknowledge?</p> 	
<p>Any references/ resources we used?</p>	