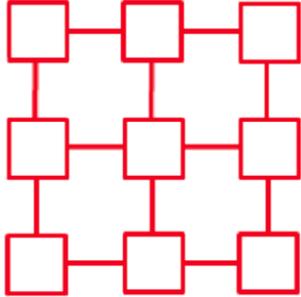


Maths Challenges!

Welcome to your Maths Challenge grid. These challenges can be done in addition to your RMeasimaths work or as a change from it. Complete one daily. The tasks are maths investigations and will involve time, perseverance and focus! **They can also be fun to do as a team, so families get involved 😊**

Golden Rules of Maths at Home

- 1. Maths is everywhere.** Cooking, shopping, packing things into bags and boxes, planning a journey... even the buildings all around you. The more you look, the more you will see.
- 2. Being wrong is OK.** Don't feel bad about mistakes – they are part of learning. If you, or someone else, gets to the wrong answer, then talk about it. How did you get there? See if you can come up with a better way to work it out.
- 3. Believe in your own ability.** Everyone has the potential to understand and enjoy maths. One of the UK's biggest problems in maths education is children 'catching' their parents' own low confidence in maths. If you don't feel confident, this is more likely to have come from your life experience than your genes. You have the ability: you've just not had the chance to develop it. You probably use maths more than you give yourself credit for. So, avoid suggesting that people in your family aren't good at maths. Your children will believe it, and make it come true.
- 4. Struggling is normal and healthy.** If you can't figure something out straight away, then you're not alone. In fact, you are sharing an experience with professional mathematicians. It's their job to get stuck on hard problems – sometimes for years! Some hints for getting unstuck include: Keep trying, try different methods, and try explaining what you don't understand to someone else.
- 5. Talking about how is interesting.** Different people bring different talents to maths – and solve problems in different ways. If you ask someone else how they worked something out, you'll learn something – even if you were both right.

Monday	Tuesday	Wednesday	Thursday	Friday
	<p>Equipment – scrap paper to make digit cards 1-9, flat surface and space to investigate, pen, paper to record your thinking and results</p> 	<p>Equipment – access to google maps or a paper map, paper and pen</p> <p>Find your house on google maps.</p> <p>What directions would you give someone to get to school from your house? Record them down.</p> <p>Choose another destination in Morecambe</p>	<p>Equipment – something to research with (computer, tablet, book), paper and pen</p> <p>Research and record:</p> <ul style="list-style-type: none"> • What is the heaviest recorded elephant in history? <p><i>You might want to think of a creative way of recording your new</i></p>	<p>Equipment – a range of coins (if not just choose and draw them out), pen and paper</p> <p>If you can, pick 4 different coins e.g. 5p 1p 50p 20p. Lay them out in front of you.</p> <p>What are ALL THE DIFFERENT totals you can make with these coins?</p>

	<p>Place the numbers from 1 to 9 in the squares below so that the difference between joined squares is an odd number. (You must use each of the numbers once.)</p> <p>Can you find some other ways to do this?</p> <p>Explain how you do this.</p> <p>Can you put the numbers in the squares so that the difference between joined squares is even? Explain your answer.</p>	<p>and find it on google maps. What directions would you need to follow to get there from your house?</p> <p>You will needs to use directional language such as left, right, straight on, cross over etc.</p> <p>Can you estimate or use google maps to see how long and how far you would be traveling?</p>	<p><i>knowledge. You might also find out other amazing stuff as you go along. Feel free to record this as well 😊</i></p>	<p>Hint: you could start with just adding 2 of your chosen coins together and then move onto 3 etc.</p> <p>Remember to find a way of systematically recording your findings. It will get confusing if you don't!</p>
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