Maths - activities you can do from home!

| Draw a scale drawing of your bedroom. <br> 10 POINTS | Draw as many diagrams as possible to prove the formula for the area of a trapezium. <br> 10 POINTS | Write a revision lesson to deliver on a topic of your choice. <br> 10 POINTS | Write an end of topic test for someone in your class on your most recent topic. | Write an article for a newspaper, explaining why it is important to study maths. <br> 10 POINTS | Prove $1+1=2$ in the most complicated way you can <br> 10 POINTS | Demonstrate Pythagoras Theorem using physical objects. <br> 10 POINTS | Pick a topic from science and show how you use maths in the topic. <br> 10 POINTS |
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| Write a question with $\frac{2}{3}$ as the answer. | Design a menu for your family for a week. <br> 10 POINTS | How long would it take for you to walk to the moon? <br> 10 POINTS | Write a question with $\sqrt{2}$ as the answer. <br> 10 POINTS | Write three "always, sometimes, never" sentences for maths. <br> 10 POINTS | How many grains of rice would you need to fill your house? <br> 10 POINTS | Write step by step instructions on how to change the subject of an equation. <br> 10 POINTS | Design a revision poster on 3 topics you have done so far. <br> 10 POINTS |
| Design a lesson for Year 7 on an introduction to angles. <br> 10 POINTS | How many footballs would you need to go around the equator of the earth? <br> 10 POINTS | Condense a topic onto one revision card. <br> 10 POINTS | Write a question with a mark scheme where you have to explain your answer. | What does it mean to reason mathematically? <br> 10 POINTS | What advice would you give to Year 9 who will start their GCSE Maths in September? <br> 10 POINTS | Choose any topic in maths and make a spider diagram summarising your knowledge. <br> 10 POINTS | Count how many steps it takes to walk around your bedroom. <br> 10 POINTS |
| How many seconds have you been alive? <br> 10 POINTS | Pick a profession or career and try to list as many ways maths might be used in that job as you can. <br> 10 POINTS | How could you calculate the volume of your brain? <br> 10 POINTS | Write a list of 5 common mistakes you might find in an exam paper. <br> 10 POINTS | Using up to four 4s and any of the 4 operations, how many numbers can you make? <br> 10 POINTS | Show 4 different representations of a fraction <br> 10 POINTS | Write instructions on how to measure angles using a protractor. | Explain the difference between significant figures and decimal places. <br> 10 POINTS |
| Design a new flag. It must have at least one line of symmetry and three colours. <br> 10 POINTS | How many Rice Krispies are there in a box? How could you estimate this without counting them? <br> 10 POINTS | Investigate the London Eye. How may rotations does it make? How far does it travel each day? <br> 10 POINTS | How long would it take for you to walk around the UK? <br> 10 POINTS | Explain what a negative number is. <br> 10 POINTS | Carry out a survey in your house, it could be on anything. Display the data using the appropriate chart. 10 POINTS | Choose any topic. Make a set of cards of key words and a second set of definitions. Mix them up and find the matching pairs. 10 POINTS | Draw a poster with the key points on circle theorems. <br> 10 POINTS |
| Explain how to convert fractions to decimals and percentages. <br> 10 POINTS | Explain the difference between compound and simple interest. <br> 10 POINTS | Write 5 key points to remember when answering questions on speed, distance and time. <br> 10 POINTS | Draw a flow chart to explain how to round to degrees of accuracy. <br> 10 POINTS | Write a tree diagram question without replacement. <br> 10 POINTS | Look for data in a newspaper or TV report. Explain why it might be misleading. <br> 10 POINTS | Explain how to convert fractions to decimals and percentages. <br> 10 POINT | What is the difference between HCF and LCM? |
| Write 10 quick questions on basic number skills. <br> 10 POINTS | Create a poster explaining how to carry out loci questions. | Find 5 exam-style questions and rank them in order of difficulty, then decide which order to answer them. <br> 10 POINTS | Write 10 quick questions on basic probability skills. <br> 10 POINTS | Design some misleading 'best buy' labels. <br> 10 POINTS | Write instructions on how to use 4 of the calculator functions. | Write a blog post explaining what you have done during the time off school. <br> 10 POINTS | Describe 5 ways to effectively revise maths. <br> 10 POINTS |
| Show two different methods for sharing out in a ratio. <br> 10 POINTS | Write 10 quick questions on basic algebra skills. <br> 10 POINTS | Draw a flow diagram showing how to calculate percentage increase and decrease. <br> 10 POINTS | Find a button on your calculator which you don't know how to use and see if you can find what it is for. 10 POINTS | What is the difference between a factor and a multiple? Give an example of when you use both of these in maths. 10 POINTS | Write 10 quick questions on basic shape skills. <br> 10 POINTS | What are the laws of indices? Write an algebraic example for each one. <br> 10 POINTS | What is the definition of an outlier? (using quartiles) <br> 10 POINTS |
| Prove that the product of two odd numbers is even. <br> 10 POINTS | Complete a 'Thinking Hard Revisit' mat on inequalities. <br> 10 POINTS | Write a list of 5 definitions of words which link to the topic of probability. <br> 10 POINTS | How many ways can you solve a quadratic? List them with clear explanations of each. <br> 10 POINTS | What are the key points to remember when drawing boxplots/using them to compare distributions? Write a revision card. 10 POINTS | The average person uses 27 sheets of toilet paper a day. A toilet roll has 100 sheets. How many toilet rolls does a family of 4 need in a week? 10 POINTS | Draw diagrams of Venn diagrams to show the union, intersection and complement. | What are the exact values for trig that you need to know? Write a revision card for these. <br> 10 POINTS |
| Write a set of revision cards on how to factorise quadratics. | Draw a diagram explaining how to calculate speed, distance and time. <br> 10 POINTS | The number eight comes first if all numbers were arranged alphabetically. Which would come last? <br> 10 POINTS | Write 10 quick questions on basic algebra skills. <br> 10 POINTS | Draw a poster explaining inequalities. <br> 10 POINTS | Why do we use Pythagoras? Convince me! <br> 10 POINTS | Design a lesson for Year 7 on an introduction to ratio. <br> 10 POINTS | Investigate different tests for divisibility of numbers. Create a poster to show these. <br> 10 POINTS |





