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| Draw a scale drawing of your bedroom.  **10 POINTS** | Design a board game using maths questions as part of the game.  **10 POINTS** | Find the time difference in 5 parts of the world.  **10 POINTS** | Write an end of topic test for someone in your class on your most recent topic.  **10 POINTS** | Using the article below, calculate the most expensive club to support. <https://www.bbc.co.uk/news/uk-23723537> **10 POINTS** | Prove 1+1=2 in the most complicated way you can.  **10 POINTS** | Demonstrate Pythagoras Theorem using physical objects.  **10 POINTS** | Identify 6 different shapes in your house.  **10 POINTS** | Write a maths dictionary with 20 words.  **10 POINTS** | Explain how to convert between centigrade and Fahrenheit.  **10 POINTS** |
| Calculate the ingredients needed to make 12 cupcakes.  **10 POINTS** | Design a menu for your family for a week.  **10 POINTS** | How long would it take for you to walk to the moon?  **10 POINTS** | How many different combinations can you make from a standard number plate?  **10 POINTS** | Write three "always, sometimes, never" sentences for maths.  **10 POINTS** | How many grains of rice would you need to fill your house?  **10 POINTS** | Draw around your hand and measure the span. Use this to estimate the length of rooms in your house.  **10 POINTS** | Design a revision poster on 3 topics you have studied so far.  **10 POINTS** | If paint costs £15 a tin and covers 12m2, estimate how much it will cost to decorate one room in your house.  **10 POINTS** | Find the average temperature each month for your hometown. Plot the information on a graph.  **10 POINTS** |
| Use origami to make a pentagon from a square.  **10 POINTS** | How many footballs would you need to go around the equator of the earth?  **10 POINTS**  **10 POINTS** | Condense a topic onto one revision card.  **10 POINTS** | What does 24 carat gold mean?  **10 POINTS** | Using Lego, cutlery or any other objects, sort them into Venn diagrams.  **10 POINTS** | Write a list of 5 jobs that use maths.  **10 POINTS** | Learn Pi to 8 decimal places.  **10 POINTS** | Count how many steps it takes to walk around your bedroom**.**  **10 POINTS** | Write down a list of all the times you use maths in real life.  **10 POINTS** | Design an information sheet explaining how to convert between 12 and 24hour clock.  **10 POINTS** |
| How many seconds have you been alive?  **10 POINTS** | Pick a profession or career and try and list as many ways maths might be used in that job.  **10 POINTS** | How could you calculate the volume of your brain?  **10 POINTS** | How many different ways can you make 15p?  **10 POINTS** | Using up to four 4s and any of the 4 operations, how many numbers can you make?  **10 POINTS** | Show 4 different representations of a fraction.  **10 POINTS** | Write instructions on how to measure angles using a protractor.  **10 POINTS** | Explain the difference between significant figures and decimal places.  **10 POINTS** | Give an example to show when "two minus make a plus" is false.  **10 POINTS** | Write a question with -5 as the answer.  **10 POINTS** |
| Design a new flag. It must have at least one line of symmetry and three colours.  **10 POINTS** | How many Rice Krispies are there in a box? How could you estimate this without counting them?  **10 POINTS** | Investigate the London Eye. How may rotations does it make? How far does it travel each day?  **10 POINTS** | How long would it take for you to walk around the UK?  **10 POINTS** | Explain what a negative number Is.  **10 POINTS** | Carry out a survey in your house; it could be on anything. Display the data using the appropriate chart.  **10 POINTS** | Make a crossword using key words for number.  **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** | Create a coded message for someone else to crack.  **10 POINTS** | Can you find the minimum number of trips in the chicken, fox and corn problem?  **10 POINTS** |
| Draw a table showing different ways to classify shapes.  **10 POINTS** | Write a guide for parents about a topic in maths so that they can help with homework.  **10 POINTS** | Write a letter to a Year 6 pupil, explaining how maths will be similar and different at secondary school.  **10 POINTS** | Choose one piece of marked work in your book and re-do it, responding to feedback and making improvements where necessary. **10 POINTS** | Explain how to convert fractions to decimals and percentages.  **10 POINTS** | Design cards to play the game Taboo with maths phrases.  **10 POINTS** | Write a question with a mark scheme on the topic of negative numbers.  **10 POINTS** | How many days in 1 million seconds?  **10 POINTS** | What is the only number to have the same number of letters as its meaning?  **10 POINTS** | Investigate different tests for divisibility of numbers. Create a poster to show these.  **10 POINTS** |
| Investigate a historical figure in mathematics and write a report on what you have learned.  **10 POINTS** | Write 10 quick questions on basic algebra skills.  **10 POINTS** | Create a Pinterest board on maths in nature.  **10 POINTS** | Investigate the Golden Ratio and its history.  **10 POINTS** | Keep a diary of the tasks you have done and the work you have completed over a week.  **10 POINTS** | Investigate numbers in the solar system.  **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** | What Is the first number to contain the letter 'a'?  **10 POINTS** | What is the only number to have all of its letters in alphabetical order? Find some other interesting maths facts. **10 POINTS** | Create a tessellating pattern.  **10 POINTS** |
| If you travel halfway to town, 50km away at the speed of 25km/h, how fast do you have to go the rest of the way to have an average speed of 50km/h? **10 POINTS** | 54 is the smallest number that can be written as the sum of 3 squares in 3 ways. Can you find them?  **10 POINTS** | Find an example of impolite and polite numbers.  **10 POINTS** | Write 10 quick questions on basic shape skills.  **10 POINTS** | Write 10 quick questions on basic number skills.  **10 POINTS** | Write a list of 5 definitions of words linking to the topic of probability.  **10 POINTS** | What does the word 'equals' mean? Where does It originate?  **10 POINTS** | The number eight comes first if all numbers were arranged alphabetically. Which would come last?  **10 POINTS** | Use diagrams to explain how to draw straight line graphs.  **10 POINTS** | What is the lowest multiple of twelve that is a square number?  **10 POINTS** |
| Investigate the Konigsberg bridge problem. Design a poster to explain it.  **10 POINTS** | Create a maths crossword.  **10 POINTS** | Can you draw a house with a cross without taking your pen off the paper? Investigate this famous puzzle. Where do you need to start? 1**0 POINTS** | Create a picture using coordinates.  **10 POINTS** | Make a mobius band out of a single piece of paper.  **10 POINTS** | Starting with the number 1 all the way to 1,000, how many 1s will you write down?  **10 POINTS** | Write a question where 3600 is the answer.  **10 POINTS** | Design a worksheet which could be used by primary pupils.  **10 POINTS** | Make a quiz on any topic you have covered so far.  **10 POINTS** | Create a treasure hunt around your house using maths questions.  **10 POINTS** |
| What does the word percentage mean?  **10 POINTS** | Write 10 quick questions on basic statistics skills.  **10 POINTS** | Make a set of revision notes on any topic.  **10 POINTS** | Calculate the surface area of a room in your house.  **10 POINTS** | Investigate the average height of children over the last 100 years.  **10 POINTS** | Make a wordsearch using key words for shape.  **10 POINTS** | Write an article for a newspaper, explaining why you need maths in real life.  **10 POINTS** | Write a guide for how to add fractions.  **10 POINTS** | Can you explain why any number to the power of 0 is 1?  **10 POINTS** | Write a question with 'mean is 14' as the answer.  **10 POINTS** |