

Year 6 Maths Home Learning Matrix

<p>Show all the pairs of factors for the numbers 36, 32 and 24.</p>	<p>During a weekly grocery shop, estimate the cost of all the items in your trolley. Check your estimate at the checkout.</p>	<p>Choose and list the price of 10 supermarket items. Round each price to the nearest dollar. Use the rounded price to calculate the total cost of the items.</p>	<p>Write 5 real-life word problems involving 1-digit by 2-digit multiplication. Use a written strategy to solve each problem. Show your working.</p>	<p>Divide a block of chocolate between each member of your family. How many pieces does each person get? Are there any remainders? Draw and explain your working.</p>
<p>Draw a number line between 0 and 1. Place the following fractions on your number line: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{2}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$. Under the number line, draw each fraction.</p>	<p>Write as many addition and subtraction number sentences as you can using these fractions: $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$, $\frac{4}{4}$. You do not need to use every fraction in each sum.</p>	<p>Draw a visual representation of all the different arrays for the number 48. Write a number sentence to accompany each array.</p>	<p>Find 10 items in a supermarket that cost less than \$1. Order their amounts from the cheapest to the most expensive.</p>	<p>Calculate the GST component of your family's weekly grocery shop.</p>
<p>Research and record the length of 10 different mini-beasts, making sure there are decimals in your measurements. Order the mini-beasts from smallest to largest.</p>	<p>Imagine you are having a party. You have \$100 to spend. Create a simple budget for the party, listing the items you will buy with their amounts.</p>	<p>Create a number pattern involving fractions that increases and another that decreases. Describe the rule for each pattern.</p>	<p>Create a number pattern involving decimals that increases and another that decreases. Describe the rule for each pattern.</p>	<p>Draw a hundreds board. Colour the prime numbers in red and the composite numbers in blue.</p>
<p>Research the monthly average temperature at the South Pole, Antarctica, for each month of the year. Order the months from the warmest to the coldest.</p>	<p>Find a recipe from a cookbook or the Internet. Triple each of the quantities for all the ingredients. Rewrite the new amounts.</p>	<p>Create a number sequence using whole numbers, a number sequence using fractions and a number sequence using decimals. Describe the rule for each sequence.</p>	<p>Show 5 different ways you could make \$4.25.</p>	<p>List 10 numbers in order from highest to lowest that lie between 99 and 103. Place them on a number-line.</p>

Choose activities from the table above to complete as part of your maths home learning. After you have completed the tasks use a highlighter to show that this task has been completed. You can only do each activity once.

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<p>Measure and record the height of each person in your family. Order the family members from shortest to tallest.</p>	<p>Measure the temperature in your home each morning for a week. Use a conversion app to convert each measurement from degrees Celsius to degrees Fahrenheit.</p>	<p>Calculate the area and perimeter of 3 different rooms in your home. Draw a scaled, labelled diagram of each room.</p>	<p>Create a timetable for all the important events in your day using 24-hour time. Write 5 word problems to accompany your timetable.</p>	<p>Make a list of activities that take approximately one hour to complete. Time yourself completing one of these activities to see if you were correct.</p>
<p>Use toothpicks and blu-tack to create a square-based pyramid. Use your model to help you draw the net for your pyramid.</p>	<p>Draw a grid reference system for your bedroom. Use this grid to describe the location of 3 items in your room.</p>	<p>Find a picture that you like in a newspaper or magazine. Using a grid system, try to enlarge the picture by drawing it to the size of an A4 sheet of paper.</p>	<p>Choose a two-dimensional shape. Draw a translation, a reflection and a rotation of this shape.</p>	<p>Find 10 angles from around your home and draw them. Measure each angle with a protractor and label the angle.</p>
<p>List all the possible outcomes for winning a game of 'Scissors-Paper-Rock'. Play a game with a member of your family and tick each outcome as it occurs.</p>	<p>Write down each of the colours in a small box of Smarties. Use fractions to show the possibility of choosing each colour.</p>	<p>Observe and record the type and number of cars that drive past your home during a half hour period.</p>	<p>Create a graph of each family member's height (including yourself). Explain why the graph you have chosen is the most sensible choice.</p>	<p>Use a weekend weather forecast to determine the type of activities you could do as a family.</p>
<p>Flip a coin 5 times, then 10 times, then 20 times. Record the results for each experiment. Was the outcome different when you did more trials? How? What do you think might happen if you flip the coin 100 times?</p>	<p>Make a spinner that represents a 25% chance of landing on red, a 0.5 chance of landing on green and a 1/4 chance of landing on yellow.</p>	<p>Draw a column graph to represent the age of each member of your family (including yourself).</p>	<p>List 5 things that are certain to happen today and 5 that are impossible and explain why.</p>	<p>List 3 everyday events that are unlikely and likely to happen and explain why.</p>

EXTENSION ACTIVITIES: INCLUDE AS MUCH DETAIL AS POSSIBLE

Mathletics: students complete assigned tasks on Mathletics. If a student is having trouble, logging in they can contact their teacher through Teams or email.

<p>Draw a map of your home</p> <p>It needs to include:</p> <ul style="list-style-type: none">- The perimeter of each room- The area of each room- If you had a pool, how big would it be?- What is the volume?- How much water would it take to fill it?	<p>Find 3 recipes at home</p> <p>You need to:</p> <ul style="list-style-type: none">- Double the recipe (how much of everything do you need?)- Triple the recipe	<p>Plan a holiday</p> <p>You need to include:</p> <ul style="list-style-type: none">- Cost of flights- Cost of accommodation- Cost of food- Spending money- Any special trips/attractions and their cost
<p>Draw a map of the countries you would like to visit when you grow up</p> <p>List on the map:</p> <ul style="list-style-type: none">- Population- What currency they use- Places of interest	<p>Redesign your front garden</p> <p>Include:</p> <ul style="list-style-type: none">- A birds eye view of the space- A minimum of 3 garden beds, 5 different types of plants and 2 types of bark and rock- You need to find out the total cost of your new garden- What is the volume of each garden bed?	<p>Write a shopping list</p> <p>Include:</p> <ul style="list-style-type: none">- A tally of each items cost- If you are buying multiple items, how much do they cost in total?- A total cost at the end of the list