

Dane Ghyll Community Primary School Non-Negotiables

Times tables to be practiced on a daily basis by all classes to ensure all other skills are embedded. Children at Dane Ghyll use the Times Table Rockstars program to assist with their learning. Please find the link for Times Tables Rockstars here:



[Times Table Rockstars](#)

Key Skills

Recall a range of calculations using mixed operations.
 Recall shape properties.
 Add and subtract using a range of strategies.
 Be confident, secure and happy in mental number knowledge.

Mental Mathematics

Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Count in steps of 2 and 10 confidently.</p> <p>Add simple numbers mentally e.g. $2+2$</p> <p>Subtract simple numbers mentally e.g. $2-2$</p> <p>Recall names of shapes.</p> <p>Know simple properties of 2D shapes.</p> <p>Know some names of 3D shapes.</p> <p>Mathematical reasoning and explaining strategies.</p> <p>Say one more/less than a given number.</p>	<p>Confidently count in 2's, 5's, 10's and answer corresponding questions.</p> <p>Know that addition can be done in any order.</p> <p>Find a small difference by counting up.</p> <p>Number bonds to 10 and 20.</p> <p>Knowledge of doubles and near doubles.</p> <p>Know how to add 9 to a number by adding 10 and subtracting 1.</p> <p>Use addition and subtraction as inverse operations.</p> <p>Add simple numbers mentally- up to 2 digits and beyond.</p>	<p>Confidently count in 2, 3, 5, 10 times tables and answer corresponding questions.</p> <p>Find a difference by counting up using 2 digit numbers.</p> <p>Know patterns of similar calculations e.g. $3+5=8$, $13+5=18$.</p> <p>Know the inverse calculations for addition and subtractions when asked and prompted.</p> <p>Add and subtract mentally bridging through 10 or 100.</p> <p>Use knowledge of number facts and place value to multiply or divide mentally e.g. $10/2= 5$</p>	<p>Confidently count in 2, 3, 4, 5, 8, 10 times tables and answer corresponding questions with pace.</p> <p>Understand that addition can be done in any order.</p> <p>Find the difference by counting up using 3 digit numbers.</p> <p>Identify near doubles e.g. $35+36= 71$</p> <p>Add and subtract 9 by adding 10 and subtracting 1 using 3 digit numbers.</p> <p>Use patterns of similar calculations e.g. $4+8=12$, $40+80= 120$, $400+800= 1200$.</p>	<p>Confidently know times tables up to 12×12. Be able to answer times tables questions with pace.</p> <p>Add large numbers by partitioning mentally. E.g. adding tens first, then units and then the total.</p> <p>Find a small difference by counting up- up to 4 digit numbers.</p> <p>Use similar patterns of calculations e.g. $2 \times 3=6$, $2 \times 30=60$, $2 \times 300=600$.</p> <p>Use patterns of similar calculations e.g. $4+8=12$, $40+80= 120$, $400+800= 1200$.</p> <p>Add and subtract numbers mentally by using knowledge of</p>	<p>Know all multiplication facts up to 12×12 and recite these when asked.</p> <p>Mentally recall converting fractions to decimals to percentages and vice versa.</p> <p>Add using methods such as partitioning e.g. $324+58= 324+50+8$</p> <p>Look for pairs that make ten when adding or subtracting.</p> <p>Add simple decimals using partitioning.</p> <p>Add and subtract simple amounts of money using place value.</p>	<p>Mentally recall multiplication facts up to 12×12 quickly</p> <p>Find a difference by counting up through the next multiple of 10, 100 or 100.</p> <p>Identify near doubles</p> <p>Mentally recall how many sides, edges, faces are in a shape.</p> <p>Add mentally three or more multiples of 10 e.g. $80+70+40+90=$</p> <p>Respond to oral questions such as $0.05+0.3=$ and explain the method clearly.</p> <p>Add and subtract large numbers mentally.</p>

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<p>Follow instructions using positional language.</p>	<p>Know days, months and seasons in order.</p> <p>Know properties of 2D and some 3d shapes e.g. name the shape.</p> <p>Practise counting around the clock- 5's, 10's etc and use appropriate language.</p> <p>Understand how to read scales quickly.</p>	<p>Confidently recite number bonds to 20.</p> <p>Know left/right turns and show this physically.</p> <p>Know the properties of 3D shapes and describe them accurately.</p> <p>Understand how to read and interpret scales accurately.</p>	<p>Use the relationship between addition and subtraction. Complete some inverse calculations.</p> <p>Use knowledge of place value to add 3 digit numbers- use number bonds to help.</p> <p>Add and subtract numbers mentally bridging 10 and 100.</p> <p>Shift digits to the left/right to multiply/divide by 10.</p> <p>Use knowledge of number facts to multiply or divide mentally.</p>	<p>number bonds to 10 and 100.</p> <p>Use knowledge or doubles or halves to multiply and divide e.g. Double 34= 30+30+4+4=68</p> <p>Know that multiplication and division are inverse operations e.g. $7 \times 5 = 35$ and $35 \div 5 = 7$.</p> <p>Begin to recite equivalent measures.</p> <p>Mentally order numbers with pace.</p> <p>Begin to add some simple decimals mentally.</p>	<p>Know all properties of shapes and identify the correct language.</p> <p>Add or subtract to the nearest multiple of 10, 100 or 1000 then adjust. E.g. $274 + 99 = 274 + 100 - 1$</p> <p>Identify near doubles e.g. $1.5 + 1.6 =$ double $1.5 + 0.1 = 3.1$</p> <p>Know and use inverse operations for addition and subtractions and multiplication and division.</p> <p>Doubling and halving e.g. double 78= double 70 +double 8</p> <p>Partitioning- e.g. $13 \times 21 = (13 \times 20) \text{ and } (13 \times 1)$</p> <p>Use place value to multiply and divide by 10, 100 and 1000. E.g. $30 = 400 = 13,000$ $8200 \div 10 = 820$ $8200 \div 100 = 82$ $8200 \div 1000 = 8.2$</p>	<p>Use related facts for doubling or halving. E.g. double 176= $200 + 140 + 12 = 352$</p> <p>Use number facts and knowledge of place value to multiply or divide mentally by 10, 100, 100. E.g. $84 \div 100 = 0.84$</p> <p>Know division facts and how to work them out mentally, explaining methods.</p> <p>Mentally recall converting fractions to decimals to percentages and vice versa.</p> <p>Add decimals quickly.</p> <p>Add percentages quickly.</p> <p>Add amounts of money mentally, explaining methods.</p> <p>Mentally put numbers in order, including fractions and decimals.</p> <p>Mentally convert measures quickly. E.g. grams into kg etc.</p>
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