# Maths Homework Grid (Y3/Y4)

Practise your tables, play a maths game and choose one other thing to work on each day. Watch the video link for each one and then have a go yourself!

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| **Times Tables**<br>Spend at least 15 minutes a day practising your times tables<br>https://ttrockstars.com/<br><br>https://www.topmarks.co.uk/maths-games/hit-the-button<br><br>https://www.timestables.co.uk/ | **Column subtraction**<br>Make your own tens and ones using straws, tooth pics, pencils (or anything else you can think of which you can make into bundles of ten).<br>Practice column subtraction with your tens and ones, then have a go at drawing them out. Once you have done this, practise column subtraction with just numbers.<br>Why don't you use a dice to generate your numbers and make some column subtraction questions of your own.<br>Link to video for column subtraction of 2 2-digit numbers:<br>https://www.youtube.com/watch?v=pADFYrGdyYE&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index |
| **Maths Games**<br>Choose a maths game to play each day.<br>Have a go making up new rules or inventing your own maths game.<br>https://matr.org/blog/fun-maths-games-activities-for-kids/<br><br>Link to maths games videos:<br>https://www.youtube.com/watch?v=foj6ujoT_HU&list=PLWIJ2KbiNEyoBDc5yLJ4PaiaY3o5E5xCB | **Grid method multiplication**<br>Multiply a 2-digit number by a 1 digit by making your own place value counters to help you. You can either draw on counters or make your own out of card/paper.<br>Once you have had a go with counters, practise by drawing out the counters. Then have a go practising with just the numbers.<br>Link to video for multiplying a 2-digit number by a 1-digit number:<br>https://www.youtube.com/watch?v=RRX3AQzYWHM&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index |
| **Column addition**<br>Make your own tens and ones using straws, tooth pics, pencils (or anything else you can think of which you can make into bundles of ten).<br>Practice column addition with your tens and ones, then have a go at drawing them out. Once you have done this, practise column addition with just numbers<br>Why don't you use dice to generate your numbers and make some column addition questions of your own.<br>Link to video for column addition of 2 2-digit numbers:<br>https://www.youtube.com/watch?v=hHM25Nx4vhg&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index=7&t | **Short division – division as grouping and sharing**<br>Get some something you can use to share (counters/raisins/grapes etc….) Practise dividing by sharing and dividing by grouping.<br>Link to video:<br>https://youtu.be/bdglIPNNhuI<br>Divide a 2 digit number by a 1-digit number by making your own place value counters to help you. You can either draw on counters or make your own out of card/paper. Once you have had a go with counters, practise short division drawing out the counters. Then have a go practising with just the numbers.<br>Link to video for dividing a 2-digit number by a 1-digit number:<br>https://www.youtube.com/watch?v=4EcMON3F1yE&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index |

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| **Equivalent fractions**<br>Investigate fractions equivalent to $\frac{1}{2}$ using food (pizza, cake, chocolate bars), toys (coloured bricks/lego) or print fraction circles from the internet<br>Link to video on fractions equivalent to $\frac{1}{2}$:<br>https://www.youtube.com/watch?v=ieT9k537jP4&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index<br>Then start to investigate other equivalent fractions:<br>Link to video on more equivalent fractions:<br>https://www.youtube.com/watch?v=LUJ49WdgRyM&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index | **Time (O'Clock, half past, quarter past and quarter to)**<br>Telling the time on an analogue clock can be tricky. Sometimes it can be easier to learn the time by introducing one hand at a time. Make your own clock from card or paper and try telling the time to o'clock and half past, using only the hour hand.<br>Link to video on telling the time to o'clock and half past:<br>https://www.youtube.com/watch?v=V32tRiEQ2AA&t<br>Once you are confident with o'clock and half past, have a go at quarter past and quarter to.<br>Link to video on telling the time to o'clock, half past, quarter past & quarter to:<br>https://www.youtube.com/watch?v=86RbCwhdJSs |
| **Fractions of amounts**<br>Use raisins, grapes, sweets, or anything else you can share to help you find fractions of amounts. Share them between your teddies and then have a go at drawing the bar model and sharing on there.<br>Link to video on fractions of amounts by sharing and using the bar model:<br>https://www.youtube.com/watch?v=PgrF1TYXP6Y&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index | **Coordinates**<br>Draw out your own grid and work out the coordinates of different items you place on your grid.<br>Link to video on coordinates:<br>https://www.youtube.com/watch?v=LheIupt9SXM&list=PLWIJ2KbiNEypHzK91u0hgALvZdLlNYiVw |
| **Adding Fractions**<br>Use coloured bricks / lego or print fraction circles from the internet. Have a go at adding fractions with the same denominator when they add up to less than one whole, then have a go at adding fractions which add to more than one whole.<br>Link to video on adding fractions with the same denominator:<br>https://www.youtube.com/watch?v=s768ZakRX4k&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index | **Right angles**<br>Make your own angle eater/right angle tester and go round your house/garden looking for right angles. Write down all the things you can find which have a right angle.<br>What about things which are less than or more than a right angle?<br>https://www.youtube.com/watch?v=S_p0STXaf9s&list=PLWIJ2KbiNEyrTqPf1uBkSPri4zSMmL09L |
| **Subtracting fractions**<br>Use coloured bricks / lego or print fraction circles from the internet. Have a go at subtracting fractions with the same denominator starting with one whole or less, then have a go at subtracting fractions starting with a fraction bigger than one whole.<br>Link to video on subtracting fractions with the same denominator:<br>https://www.youtube.com/watch?v=iUfsGb5KLWs&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index | **Identify parallel and perpendicular lines**<br>Can you find any parallel and perpendicular lines in your house / garden? Write down all the things you can find with parallel lines and then do the same for perpendicular lines.<br>Link to video on parallel and perpendicular lines:<br>https://www.youtube.com/watch?v=AUBVEyzxn7s&list=PLWIJ2KbiNEyrTqPf1uBkSPri4zSMmL09L&index |

# Maths Homework Grid (Y4)

Practise your tables, play a maths game and choose one other thing to work on each day. Watch the video link for each one and then have a go yourself!

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| **Times Tables**<br>Spend at least 15 minutes a day practising your times tables<br>https://ttrockstars.com/<br><br>https://www.topmarks.co.uk/maths-games/hit-the-button<br><br>https://www.timestables.co.uk/ | **Column Subtraction**<br>Make your own hundreds, tens and ones counters by drawing on counters you have at home or make some out of paper/card.<br>Practice column subtraction with your hundreds, tens and ones, then have a go at drawing them out and then practising with just the numbers.<br>Why don't you use a dice to generate your numbers and make some column subtraction questions of your own!<br>Link to video for column subtraction of 2 3-digit numbers:<br>https://www.youtube.com/watch?v=sTILCPp6q2c&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index=10 |
| **Maths Games**<br>Choose a maths game to play each day.<br>Have a go at inventing your own maths game.<br>https://matr.org/blog/fun-maths-games-activities-for-kids/<br><br>Link to maths games videos:<br>https://www.youtube.com/watch?v=foj6ujoT_HU&list=PLWIJ2KbiNEyoBDc5yLJ4PaiaY3o5E5xCB | **Grid method and column method multiplication**<br>Multiply a 3-digit number by a 1-digit number by making your own place value counters to help you. You can either draw on counters or make your own out of card/paper.<br>Once you have done this with counters, have a go by drawing them out.<br>Link to video:<br>https://www.youtube.com/watch?v=QrKqvhV-j_Q&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index=13 |
| **Column Addition**<br>Make your own hundreds, tens and ones counters by drawing on counters you have at home or make some out of paper/card.<br>Practice column addition with your hundreds, tens and ones, then have a go at drawing them out. Once you have done this, practise column addition using just the numbers.<br>Why don't you use a dice to generate your numbers and make some column addition questions of your own!<br>Link to video for column addition of 2 3-digit numbers:<br>https://www.youtube.com/watch?v=PRAOFeuaaVU&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index=9 | **Division (grouping and sharing and bus stop method)**<br>Get some something you can use to share (counters/raisins/grapes etc….) Practise dividing by sharing and dividing by grouping.<br>Link to video:<br>https://youtu.be/bdglIPNNhuI<br>Divide a 3 digit number by a 1-digit number by making your own place value counters to help you. You can either draw on counters or make your own out of card/paper.<br>Once you have had a go with counters, try it by just drawing out the counters. Then have a go practising with just the numbers.<br>Link to video for dividing a 3-digit number by a 1-digit number:<br>https://www.youtube.com/watch?v=D7PelKmv-jI&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index=14 |

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| **Equivalent fractions**<br>Print out your own fraction strips/fraction circles from the internet.<br>Use these to find fractions which are equivalent to each other e.g. $\frac{2}{6} = \frac{1}{3}$<br>Link to video on equivalent fractions:<br>https://www.youtube.com/watch?v=LUJ49WdgRyM&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index | **Telling the time in analogue and digital**<br>Try converting different times from analogue to digital and from digital to analogue.<br>Link to video on analogue to digital time:<br>https://www.youtube.com/watch?v=72MmggC_ZtA&list=PLWIJ2KbiNEypQx6oZDAuyI55g_ShOQRNx&index |
| **Fractions of amounts**<br>Use raisins, sweets, grapes etc.... and draw out bar models to help you find fractions of amounts. Once you have had a go with practical resources, draw them out as a picture to help you. Once you are confident with this, draw out the bar model but just record the numbers in it.<br>Link to video showing the bar model for fractions of amounts:<br>https://www.youtube.com/watch?v=qh53TJoMV3o&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index | **Multiplying and dividing by 10 and 100**<br>Make your own place value grid and place value slider and try multiplying different numbers by 10 and 100. Can you work out what happens when you have decimal numbers?<br>Link to video on multiplying by 10 and 100:<br>https://www.youtube.com/watch?v=7Y0zSnhiShc&list=UUob4tkfOSXy6yav9Y54SKIQ&index<br>Link to video on dividing by 10 and 100:<br>https://www.youtube.com/watch?v=PPMnbH2M0io&list=UUob4tkfOSXy6yav9Y54SKIQ&index |
| **Adding and subtracting fractions**<br>Use lego or print fraction circles off the internet to help you to practise adding and subtracting fractions with the same denominator.<br>Link to video showing adding fractions with the same denominator:<br>https://www.youtube.com/watch?v=s768ZakRX4k&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index<br>Link to video showing subtracting fractions with the same denominator:<br>https://www.youtube.com/watch?v=iUfsGb5KLWs&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index | **Right, acute and obtuse angles**<br>Make your own angle eater/right angle tester and go round your house/garden looking for right, acute and obtuse angles.<br>Link to video showing investigation of right, acute and obtuse angles:<br>https://www.youtube.com/watch?v=S_p0STXaf9s&list=PLWIJ2KbiNEyrTqPf1uBkSPri4zSMmL09L |
| **Telling the time in analogue**<br>Practise telling the time in analogue. You can choose to practice reading the time to o'clock an half past:<br>https://www.youtube.com/watch?v=V32tRiEQ2AA&t<br>Once you are confident with this, have a go at telling the time to quarter past & to:<br>https://www.youtube.com/watch?v=86RbCwhdJSs<br>If you can do this, have a go at telling the time to 5 minutes:<br>https://www.youtube.com/watch?v=QJkYONqIYQM<br>Finally have a go at reading the time to the nearest minute:<br>https://www.youtube.com/watch?v=ohgPN0jOcf4 | **Coordinates**<br>Draw out your own grid and work out the coordinates of different items you place on your grid.<br>Link to video on coordinates:<br>https://www.youtube.com/watch?v=LheIupt9SXM&list=PLWIJ2KbiNEypHzK91u0hgALvZdLlNYiVw |