Year 3 Maths Home Learning Grid

Times Tables

Spend at least 15 minutes a day practising your times tables

|
https://www.topmarks.co.uk/maths-games/hit-the-button
https://www.timestables.co.uk/

Column subtraction

Practice column subtraction with 2 digit and 3 digit numbers.
Why don't you use a dice to generate your numbers and make some column subtraction questions of your own?

Link to video for column subtraction of 2 2-digit numbers:
https://www.youtube.com/watch?v=pADFYrGdyYE&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index

Maths Games

Choose a maths game to play each day.
Have a go making up new rules or inventing your own maths game.
https://matr.org/blog/fun-maths-games-activities-for-kids/

Link to maths games videos:
https://www.youtube.com/watch?v=foj6ujoT_HU&list=PLWIJ2KbiNEyoBDc5yLJ4PaiaY3o-5E5xCB

Short division – division as grouping and sharing

Get some something you can use to share (counters/raisins/grapes etc….) Practise dividing by sharing and dividing by grouping.
Link to video:
https://youtu.be/bdglIPNNhuI
Link to video for dividing a 2-digit number by a 1-digit number:
https://www.youtube.com/watch?v=4EcMON3F1yE&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index

Column addition

Why don't you use dice to generate your numbers and make some column addition questions of your own?

Link to video for column addition of 2 2-digit numbers:
https://www.youtube.com/watch?v=hHM25Nx4vhg&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index=7&t

Grid method multiplication

Multiply a 2-digit number by a 1 digit. Use a dice to give a 2 digit number and a 1 digit number.

Link to video for multiplying a 2-digit number by a 1-digit number:
https://www.youtube.com/watch?v=RRX3AQzYWHM&list=PLWIJ2KbiNEyq1iZ36fRe-xTJ4NNZsmYz9&index

Equivalent fractions

Investigate fractions equivalent to $\frac{1}{2}$ using food (pizza, cake, chocolate bars), toys (coloured bricks/lego) or print fraction circles from the internet
Link to video on fractions equivalent to $\frac{1}{2}$:
https://www.youtube.com/watch?v=ieT9k537jP4&list=PLWIJ2KbiNEypSOzxt54Wez5X4gnQ-xxvu&index
Link to video on more equivalent fractions:
https://www.youtube.com/watch?v=LUJ49WdgRyM&list=PLWIJ2KbiNEypSOzxt54Wez5X4gnQ-xxvu&index

Time (O'Clock, half past, quarter past, quarter to and to the 5 minutes)

Have a go at using the Topmarks clock to make the correct times.
Find games below

https://www.sheppardsoftware.com/mathgames/earlymath/on_time_game1.htm
https://mathsframe.co.uk/en/resources/resource/116/telling-the-time

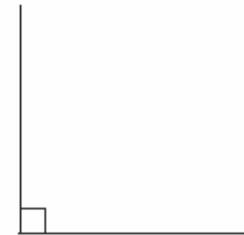|	
<u>Fractions of amounts</u> Use raisins, grapes, sweets, or anything else you can share to help you find fractions of amounts. Share them between your teddies and then have a go at drawing the bar model and sharing on there. Can you find half of a number, a third, a quarter, two quarters, three quarters or even a fifth? Could you investigate remainders? Choose an amount and an amount to share between; this could be done on plates, share the amount and find remainders. Record this using a piece of paper and making a table. Link to video on fractions of amounts by sharing and using the bar model: https://www.youtube.com/watch?v=PgrF1TYXP6Y&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index	**<u>Coordinates</u>** Draw out your own grid and work out the coordinates of different items you place on your grid. Link to video on coordinates: https://www.youtube.com/watch?v=LheIupt9SXM&list=PLWIJ2KbiNEypHzK91u0hgALvZdLlNYiVw Coordinates game with varying levels https://www.mathsisfun.com/data/click-coordinate.html
<u>Adding Fractions</u> 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. See Bitesize for a guide for your child along with videos and games https://www.bbc.co.uk/bitesize/topics/zhdwxnb/articles/z9n4k7h Link to video on adding fractions with the same denominator: https://www.youtube.com/watch?v=s768ZakRX4k&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index $$\frac{2}{9} + \frac{5}{9} = \frac{7}{9}$$	**<u>Right angles</u>** 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. What about things which are less than or more than a right angle? https://www.youtube.com/watch?v=S_p0STXaf9s&list=PLWIJ2KbiNEyrTqPf1uBkSPri4zSMmL09L
<u>Subtracting fractions</u> 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. See Bitesize for a guide for your child along with videos and games https://www.bbc.co.uk/bitesize/topics/zhdwxnb/articles/z9n4k7h Link to video on subtracting fractions with the same denominator: https://www.youtube.com/watch?v=iUfsGb5KLWs&list=PLWIJ2KbiNEypS0zxt54Wez5X4gnQ-xxvu&index	**<u>Identify parallel and perpendicular lines</u>** 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. Games and video https://www.splashlearn.com/math-skills/fourth-grade/geometry/parallel-and-perpendicular-lines Link to video on parallel and perpendicular lines: https://www.youtube.com/watch?v=AUBVEyzxn7s&list=PLWIJ2KbiNEyrTqPf1uBkSPri4zSMmL09L&index
<u>Money</u> See attached shop sheet. Add together 2 amounts to find the total. If someone paid with £5 what change would they receive, If they paid with £10 what change would they receive? Some great Topmarks money games can be found here, or google Topmarks money games. https://www.topmarks.co.uk/Search.aspx?AgeGroup=2	**<u>Length</u>** Find something in your house you could use to measure with. Can you draw a square with sides of equal length? Try your best to keep the corners at a right angle. Can you draw a rectangle? Measure the sides accurately and record. Could you design your own garden or think bigger and even your own theme park from a birds eye view using a ruler to measure out areas?

Y4- Maths Home Learning Grid

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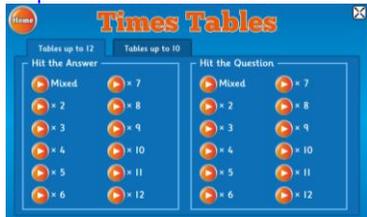
Column subtraction

Practice column subtraction with 2 digit and 3 digit numbers.

Why don't you use a dice to generate your numbers and make some column subtraction questions of your own? Could you apply this to
- 3 digit take a 2 digit
- 4 digit take a 3 digit number
- 4 digit take a 2 digit

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Grid method multiplication

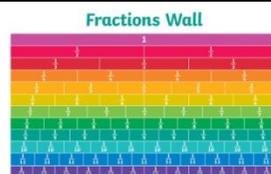Multiply a 2-digit number by a 1 digit. Use a dice to give a 2 digit number and a 1 digit number.

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Time (O'Clock, half past, quarter past, quarter to and to the 5 minutes)

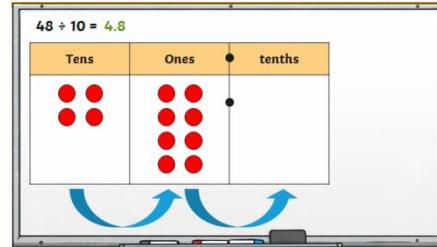Have a go at using the Topmarks clock to make the correct times.

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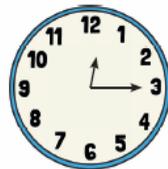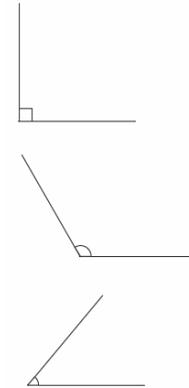
<u>**Multiplying and dividing by 10 and 100**</u> Make your own place value grid and place value slider and try multiplying different numbers by 10 and 100. Can you work out what happens when you have decimal numbers? See a great online game here http://www.ictgames.com/mobilePage/decimalDemonstrator/ Link to video on multiplying by 10 and 100: https://www.youtube.com/watch?v=7Y0zSnhiShc&list=UUob4tkfOSXy6yav9Y54SKIQ&index Link to video on dividing by 10 and 100: https://www.youtube.com/watch?v=PPMnbH2M0io&list=UUob4tkfOSXy6yav9Y54SKIQ&index	<u>**Right, acute and obtuse angles**</u> Make your own angle eater/right angle tester and go round your house/garden looking for right, acute, obtuse and right angles. Link to video showing investigation of right, acute and obtuse angles: https://www.youtube.com/watch?v=S_pOSTXaf9s&list=PLWIJ2KbiNEyrTqPf1uBkSPri4zSMmLO9L
<u>**Telling the time in analogue**</u> Practise telling the time in analogue and digital. You can choose from the videos down below or use your clock at home at different times in the day to acknowledge the time. Game https://www.sheppardsoftware.com/mathgames/earlymath/on_time_game1.htm https://www.youtube.com/watch?v=V32tRiEQ2AA&t Once you are confident with this, have a go at telling the time to quarter past & to: https://www.youtube.com/watch?v=86RbCwhdJSs If you can do this, have a go at telling the time to 5 minutes: https://www.youtube.com/watch?v=QJkYONqIYQM Finally have a go at reading the time to the nearest minute: https://www.youtube.com/watch?v=ohgPN0jOcf4	<u>**Coordinates**</u> Draw out your own grid and work out the coordinates of different items you place on your grid. Link to video on coordinates: https://www.youtube.com/watch?v=LheIupt9SXM&list=PLWIJ2KbiNEypHzK91u0hgALvZdLlNYiVw Coordinates game with varying levels https://www.mathsisfun.com/data/click-coordinate.html