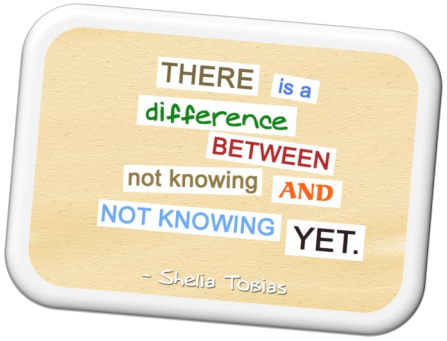


Highley School

MATHS OPEN MORNING

TUESDAY 1ST OCTOBER

Helping your child with maths…

We make a lot of use of on-line maths games and activities in school. Some of the links below are our most popular. Why not try some of them out and let us know what you think?

Children make better progress as mathematicians when they regularly repeat skills and practice them until they are embedded. This can be quite a long process sometimes, and so by doing this, within the context of an exciting game or interesting activity can be highly motivating.
In our experience, our children learn best when they are having fun and that's what games are for!

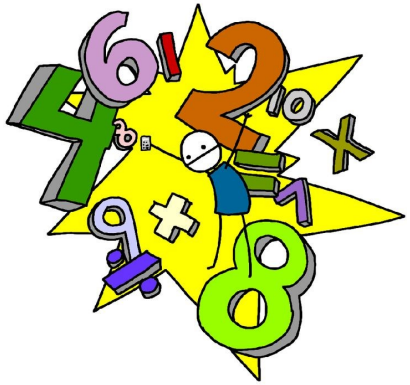
A simple pack of **playing cards**, set of **dice** or box of **dominoes** offer a wealth of opportunity for learning. Ideas can be found in the following web links:

http://www.mathematicshed.com/uploads/1/2/5/7/12572836/making_math_more_funa.pdf
Some great ideas for card games here!

https://nrich.maths.org/5896
Some dice and away you go with some of these games!

http://www.sowevalleyprimary.co.uk/documents/DiceGames-plus.pdf
Further dice games here.

https://nrich.maths.org/1200
Domino games – particularly for KS2.



And finally…

Set a good example. Throw away comments like "*I'm not good at maths!*" or "*I hated maths at school*…" are readily picked up by your child and can, in turn affect their *own* attitude.

Build confidence – if a child loses confidence in a task, it can set them back. If they are struggling with a concept, go back a few steps to help build and re-store their confidence.

"I can't do it *yet*…" Be sure to praise for effort, rather than their performance. Reaffirm that making mis-takes is 'good' and a necessary part of the learning journey.

Motivation is the key (and the challenge!) Motivate through reward and praise. Get other family members involved in encouraging your child.

Times table practice:

Of course, we do have 'Time Tables Rockstars' in school, which can be played on a laptop or downloaded onto a tablet or phone for free.

Download on the App Store

Your child may also enjoy some of the games detailed below:

https://teachingtables.co.uk/
A collection of little games from the Primary Games website

https://www.ictgames.com/mobilePage/archeryDoubles/index.html
Learn to double numbers up to twenty

https://primarygames.co.uk/pg3/mwipe/mwipe.html
Burst only the balloons that are multiples of the given table

https://primarygames.co.uk/pg4/Ghostblasters2006/ghost2006.swf
Unfriendly ghosts are there to be shot at!

ACTIVITIES TO DO WITH YOUR CHILD AT HOME…

Reception (EYFS)

Shape

You could take your child on a 'shape walk' around the local area to see what shapes they can spot. Draw their attention to shapes and colours that you see together.

2D: *rectangle, square, circle, triangle*

Money

Receiving (and spending!) pocket money can make children very keen learners in this area! Use any shopping trips or play shop to encourage your child to be able to:

Recognise 1p, 2p, 5p 10p coins

Time

Make sure that there are both traditional and digital clocks around the house.

Give them a 'special mission' of telling everyone when tea is ready or when it's bedtime.

Measures

Get your child to help with the washing up! This is a great way of encouraging them to compare different containers for capacity. Encourage them to use comparative language like big, little, heavy, light.

Use positional language such as in front of, next to, underneath. A game of hide the teddy is great for this.

Number songs and Rhymes are a great way of learning and using numbers. Some of our favourites are:

5 Current Buns, 5 Little Ducks, 5 Little Monkeys Jumping On The Bed

5 Little Space Men, 5 Little Speckled Frogs, 1 Man and his Dog,

10 Green Bottles

Your child can teach you lots more or try this website, which has some ideas for you:

https://www.nurseryrhymes.org/numbers.html

Puzzles are a great way to encourage the children to look at irregular shapes.
It also helps with their spatial awareness and fine motor skills too!

Play dough is used a lot in Reception!

Use it to:

make numerals and shapes
Sort shapes into groups, or order by size
Make long and short wiggly snakes.

Why not have a go at home:

Playdough

Here's a simple recipe:

1 cup of plain flour

1 cup of water

1 tablespoon cooking oil

2 teaspoons cream of tartar

Half a cup of salt

Food colouring and essences (optional)

Put all ingredients in a large saucepan, and heat slowly, stirring all the time until it forms a ball. Keep it wrapped in cling-film or in a covered

https://www.topmarks.co.uk/learning-to-count/underwater-counting
Learn to count up to 10 sea creatures accurately with this fun underwater themed game!

https://primarygames.co.uk/pg2/dogbone/gamebone.html
Explore the 100 square.

https://primarygames.co.uk/spintowin/wheelres.html
Create the highest number to win the round

https://primarygames.co.uk/pg3/orderegg/ordereggsKS1.html
Ordering numbers according to place value

https://primarygames.co.uk/pg3/orderegg/ordereggsKS2.html
The extended version that includes decimal numbers too.

https://primarygames.co.uk/PG5/Decimal/decchall.swf
Can you match the decimal numbers to create the target number?

https://primarygames.co.uk/pg2/ghost2/ghosteven.swf
Shoot down the even-numbered ghosts

https://primarygames.co.uk/pg2/ghost2/ghostodd.swf
Shoot down the odd-numbered ghosts.

https://primarygames.co.uk/pg2/splat/splatsq100.html
Splat the numbers in different colours. Play games, look for patterns and learn your numbers to 100!

You might also find the following links helpful:

https://www.bbc.co.uk/bitesize/subjects/zjxhfg8

https://www.bbc.co.uk/bitesize/subjects/z826n39

Some 'how to' videos here and information on how to support your child at home…
https://www.oxfordowl.co.uk/welcome/for-home/maths-owl/maths

Time
Make sure that there are both traditional and digital clocks around the house for your child to practise reading the time to the nearest minute.
Use timetables and TV guides that use 24 hour clock times.
Give your child lots of time problems to solve. E.g. “Tea will be 45 minutes. What time will it be ready?”

Measures
Cooking is a great way for your child to practise weighing and measuring in grams and kilograms. It’s a terrific way to learn to accurately read scales and measure out capacities in litres and centilitres. Following recipes will also make them familiar with imperial measurements such as pints, pounds and ounces.

WEBSITES:

You'll find all sorts of maths content here, all presented as engaging games and challenges:
https://primarygames.co.uk/

Another collection of games and activities across the full range of curriculum content, mostly appropriate to our KS2 pupils:
http://mathszone.co.uk/

Lots of fun games to play with children of all ages!
https://www.topmarks.co.uk/maths-games

A lot of maths in school is dependent on children’s understanding of number and place value. Here are a few web link games, which may help:

https://www.topmarks.co.uk/ordering-and-sequencing/chinese-dragon-ordering
Learn to order numbers by playing this fun Chinese Dragon game!

https://www.topmarks.co.uk/learning-to-count/underwater-counting
Learn to count up to 10 sea creatures accurately with this fun underwater themed game!

Year 1

Shape
You could take your child on a ‘shape walk’ around the local area to see what shapes they can spot. The shapes they may recognise in Year 1 are:
2D: *rectangle, square, circle, triangle*
3D: *sphere, cube, cuboid, cone*

Money
Receiving (and spending!) pocket money can make children very keen learners in this area! Use any shopping trips or play shop to encourage your child to be able to:
Recognise 1p, 2p, 5p 10p coins
Find totals and change up to 20p

Time
Make sure that there are both traditional and digital clocks around the house for your child to practise reading the time to the whole and half hour. Give them a ‘special mission’ of telling everyone when tea is ready at half past five.

Measures
Get your child to help with the washing up! This is a great way of encouraging them to compare different containers for capacity.

Year 2

Shape
You could take your child on a ‘shape walk’ around the supermarket to see what shapes they can spot. The shapes they may recognise in Year 2 as well as the old familiar ones are:
2D: *pentagon (5 sides) hexagon (6 sides) octagon (8 sides)*
3D: *sphere, cube, cuboid, pyramid, cylinder, cone*

Money
Receiving (and spending!) pocket money can make children very keen learners in this area! Use any shopping trips to encourage your child to be able to:
Recognise all the coins
Total and write amounts that are over £1
Work out change that should be given.

Time
Make sure that there are both traditional and digital clocks around the house for your child to practise reading the time to the whole, half and quarter hour. Encourage them to work out times when you are out and about e.g. *What time will swimming be finished if your lesson is half an hour?*

Measures
Cooking is a great way for your child to practise weighing and measuring in grams and kilograms.

Year 3

Shape
You could take your child on a 'shape walk' around the local area to see what shapes they can spot. Look at the buildings to spot right angles and symmetrical shapes. Can they identify any irregular shapes by counting the numbers of sides?

Money
Receiving (and spending!) pocket money can make children very keen learners in this area! Put them in charge of a small part of the shopping list at the supermarket and give them a budget they must not go over. This will encourage them to:

Recognise all coins and notes
Total and write amounts up to £10 using £ and p
Work out change that should be given.

Time
Make sure that there are both traditional and digital clocks around the house for your child to practise reading the time to 5 minute intervals. Ask them to be 'human alarm clocks' and to let you know when the oven needs turning off at 20 past 6. A watch is a great birthday present at this time if they haven't got one. Encourage your child to solve problems involving time e.g. this programme starts at 12.20 and it is 50 minutes long. What time will it finish?

Measures
Cooking is a great way for your child to practise weighing and measuring in grams and kilograms. It's a terrific way to learn to accurately read scales and measure out capacities in litres and centilitres.

Year 4

Shape
You could take your child on a 'shape walk' around the local area to see what shapes they can spot. They should be able to identify different types of triangles and recognise multi-sided shapes including heptagons.

Money
Receiving (and spending!) pocket money can make children very keen learners in this area! Put them in charge of a small part of the shopping list at the supermarket and give them a budget they must not go over. Encourage them to solve problems involving money. E.g. I need 4 packets of sugar at £1.30 each. How much will that cost? How much change will I get from £10?

Time
Make sure that there are both traditional and digital clocks around the house for your child to practise reading the time to the nearest minute. Use TV guides and timetables to encourage them to calculate times (e.g. which programme will last 45 minutes?)

Measures
Cooking is a great way for your child to practise weighing and measuring in grams and kilograms. It's a terrific way to learn to

Year 5 and 6

Shape
You could take your child on a 'shape walk' around the local area to see what 2D and 3D shapes they can spot. They should be able to spot different sorts of angles, lines of symmetry and parallel and perpendicular lines.

Money
Get your child to work out holiday spending money by using conversion charts in newspapers to convert pounds to foreign currency.
Go shopping in the sales (fun for all!) – what is the sale price if there is 10% off? Give your child an Argos catalogue. Let them go on a 'fantasy spending spree'. What would they buy with £20 and how much change (if any!) would they have?