THE SULTAN'S SCHOOL

HELPING YOUR CHILD WITH MATHS AT HOME
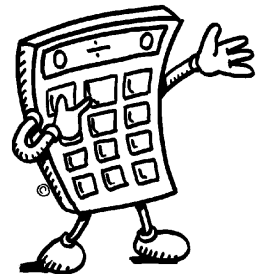
- Your child has taken home a **letter** which explains the main things that your child has or will be learning in maths.

- Have a look through this letter so you can get some ideas on how to help your child at home.

- **Remember** as a parent you should not have to teach them but **support and reinforce** what they are taught by their teachers.
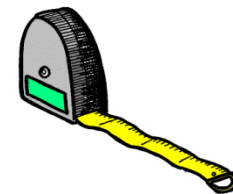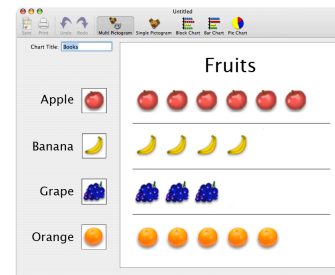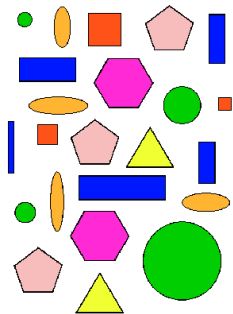
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What will my child be learning at school?

• Your child will be learning various objectives from the six areas of maths:

1) Number facts and counting
2) Calculating
3) Using and applying maths
4) Shape and space
5) Measures
6) Data handling
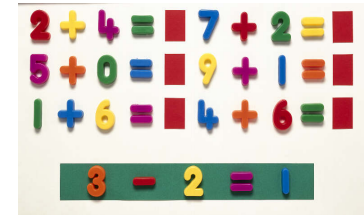
How can I help my child at home?

Help your child by supporting them with their homework

- Let them have a go first and then offer help after they have tried

- If your child does not understand, try to explain to them how to do it, but <u>do not</u> do the work for them

- If they are still unsure, write a note to their teacher so that we can help them in class

How can I help my child at home?

USE LOTS OF PRAISE AND ENCOURAGEMENT!!!!

• Praise them for all of the things that they get right – even the small things!

• Tell them when they make mistakes and help them to correct their mistakes so that they will get them right the next time.

Well done!

How can I help my child at home?

1) Counting objects (particularly KS1)

- **Get your child to count everyday things**

  (e.g. things in the trolley at the supermarket / red cars driving past in the car / how many sweets in a pack / how many flowers in a vase……)

- **Get your child to skip / jump and count how many they can do**

- **Play a game that involves counting**

  (e.g. snakes and ladders or on a number board with 1-20 (or 1-50), toss a coin and if it is a 'head' they move 1 space, if it is a 'tail' the move 2 spaces. First to the end wins…)

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How can I help my child at home?

1) **Counting objects (particularly KS1) – continued**

•**Get your child to estimate (guess) how many.....**
e.g. Guess how many steps I will take to reach the top of the stairs (then count it) / guess how many sweets in a jar / guess how many apples for 1 Rial (then check at the till).....

•**Play games using money (either Omani or English)**
e.g. How many ways can I make 1 Rial or £1? Take it in turns to pick up a coin from a bag. After each time that you pick up the coin, add up the amount and if you go over 1Rial or £1 you lose.

How can I help my child at home?

2) Read, write and order numbers

• **Practise writing the numbers (Especially KS1)**

e.g. on each other's backs (can you guess what each other has written?) / write in sand / paint the numbers with your fingers / draw them outside with chalk / write them in icing on a cake…..

• **Play a game that involves counting /reading numbers**

(e.g. snakes and ladders / monopoly / card games)

• **Get them to count out the correct number of Omani Rials / Baizas at the shop**

How can I help my child at home?

2) Read, write and order numbers continued

- **Get your child to tell you the names of the numbers that they can see around them and ask them what number comes next or before**
(e.g. numbers on apartments / number plates / street signs / television channels / barcodes)

- **Play games / competitions to order the numbers**
e.g. Who is the fastest to order these number cards from 0-100 or 0-10000 or 0-10000? / How long will it take you to put the numbers 10, 18, 2, 20 and 9 or 146, 99999, 12467, 6139, 283990 in order from the smallest to the largest? / Can you put these bags of sweets in order from the smallest to largest? / Play bingo

456 678 8990 8992 12389

How can I help my child at home?

3) Say if a number is odd (end in 1,3,5,7,9) or even (end in 2,4,6,8,0)

Play games

e.g. If the next number plate on a car is odd, you get a point, if not then I do / Add up the numbers on the number plate, if it is odd then you win, if it is even then I win. / Have we got an odd number or ears / nose / fingers / toes?

How can I help my child at home?

4) Round numbers to 10, 100 and 1000 (KS2)

•**When shopping**

e.g. get the children to round up the cost of things to the nearest Rial when shopping to work out the rough total. Were they right at the till? / Get them to round up the shopping bill receipt and quickly check you haven't been overcharged.

(950 Baiza ~ 1Rial) + (2.900 ~3Rial) =4Rial

How can I help my child at home?

5) Count on or back in 10s or 100 from any number e.g. 462,472, 482…..

•**Get your child to keep circling 10 more on a one-hundred square when you give them a number to start with**

100-square board

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

•**Get them to work out the date 10 or 100 years ago or when they are 10, 20, 30…. years older**

1978-1988-1998-2008

62

How can I help my child at home?

6) Learning the number bonds and adding & subtracting

- **Play games at the shops**
e.g. chose a target number e.g. 8 and find numbers that add up to it / building 62 so 6 + 2 = 8. If I have 10 sweets and eat 2, how many are left?

- **Get them to add up prices or quantities**
e.g. If there are 17 sweets in this bag and 25 cookies in here, how many altogether?

- **Help with cooking in the kitchen**
e.g. Faisal wants 2 burgers, Arwa wants 1 and you want 1, how many altogether?

How can I help my child at home?

6) Learning the number bonds and adding & subtracting cont...

Play games with adding / subtracting mentally
e.g. Monopoly, card games.
Get them to pick 2 cards and add up the amount. Can they think of 2 numbers whose difference is the same as the total they just added?
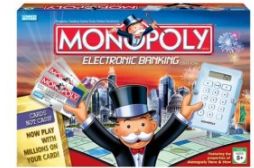
e.g. Dominoes - Both write the numbers 1 to 12 on a sheet. Pick a domino and add up the spots, then tick off the number on the sheet. The first person to tick off the numbers wins.

How can I help my child at home?

7) Adding and subtracting larger numbers on paper (KS2)

- **Play games**

e.g. Player 1 throws a dice and writes down three or four numbers to get a three or four digit number. Player 1 then repeats this and adds up the total. Player 2 then has their go. The person with the highest total gets a point.

- **Check the shopping bill**

After shopping, get the children to write down the cost of a few items and add them together. Were you over charged on the receipt?

How can I help my child at home?

8) Know by heart all of the times tables and their associated division facts

•**Solve problems in the kitchen**

e.g. If I have a tray that has holes for cooking cakes in a 3 x 4 arrangement, how many cakes can I fit on it?

•**Play games**

e.g. take it in turns to roll two dice and multiply the numbers. Then cover up the answer on 100 square with a counter, first to get 3 counters in a row wins. / Throw a dice 4 times. Add any two of the numbers and multiply them together to get your score. Get your partner to do the same, the one with the highest score wins.

How can I help my child at home?

8) Know by heart all of the times tables and their associated division facts cont...

•**Colour in a one hundred square in colours depending on the times table** – e.g. Circle the 2x multiples in red, circle the 3x in blue and the 4x in yellow - Did some of the numbers have 2 or more colours? Why?

•**Practise chanting the tables**

e.g. Remind them that once they know some of the tables, they already know lots of others e.g. If they know that 4 x3 is 12 then they know that 3 x 4= 12

•**Rhymes – make up rhymes or songs to help them remember difficult times**

•**Get them to draw spiders with number facts at the end of each leg for each table e.g.** 7x6=42, 6x7=42, 42÷7 = 6 and 42÷6 = 7

How can I help my child at home?

8) Know by heart all of the times tables and their associated division facts cont...

- **Draw aliens and work out the number of body parts**
  e.g. The number of fingers is 6 arms x 8 fingers = 48

- **Work out problems at the shops**
  e.g. If cakes come in packs of 6 and I need 34, how many packs will I have to buy? / If I have 100 teabags, how many each if there are 30 of us coming over for lunch?

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How can I help my child at home?

Learning your times tables – another way!

This is the multiplication square – looks a lot of facts to learn!

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	49	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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How can I help my child at home?

Learning your times tables – another way!

The one times tables is easy!

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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How can I help my child at home?

Learning your times tables – another way!

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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How can I help my child at home?

Learning your times tables – another way!

So are the tens!

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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How can I help my child at home?

Learning your times tables – another way!

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

How can I help my child at home?

Learning your times tables – another way!

So are the twos!!

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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How can I help my child at home?

Learning your times tables – another way!

And the fives!!

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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How can I help my child at home?

Learning your times tables – another way!

Not so many to learn now!

What about the doubles?

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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How can I help my child at home?

Learning your times tables – another way!

3 x4 = 12
4 x 3 = 12

If you know one you'll know the other!

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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How can I help my child at home?

Learning your times tables – another way!

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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How can I help my child at home?

Learning your times tables – another way!

Then there are the square numbers:
1x1
2x2
3x3
4x4
5x5
6x6
7x7
8x8
9x9
10x10

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

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How can I help my child at home?

Learning your times tables – another way!

This leaves only fifteen number bonds to learn!

Every child will have particular bonds which they find very hard to recall. Keep revisiting these – and remember:
praise!
praise!!
praise!!!

x	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

THE SULTAN'S SCHOLL

How can I help my child at home?

9) Multiply and divide numbers (including decimals) by 10 or 100

•**Get your child to work out problems in the supermarket or kitchen**

e.g. If I have 100 guests at a wedding and they are all going to get 15 chocolates, how many will I need to buy? /

If sweets come in a bag of 2000 and there are 10 guests, how many will each guest get?

If I have 2000 g of sugar and need a tenth of this to make a cake, how much will I need?

How can I help my child at home?

10) Solving problems using + - x ÷ (KS2)

•**Cooking a meal**

Get them to plan and cook a meal (with support). They will have to work out how much food to buy; work out the cost of the meal in total and per person / weigh out the ingredients / measure the temperature / time the cooking…..

•**Ordering take-away**

Use a take-away menu to calculate the total price. What if we only had 20 Rials to spend but need to feed 6 people – what could we get? Do you need to add on delivery charge?

•**Planning a birthday party**

Work out how many packs of each thing we will need / costs

How can I help my child at home?

Find fractions of shapes and numbers

•**Get them to cut up cakes / pizzas etc into fractions**
e.g. We have 8 people eating so can you cut the pizza into eighths? / What fraction do we need to cut it into?

•**Get them to share out things between their brothers and sisters**
e.g. can you share the sweets equally between you and your sister? / How many counters will you get if you have to share 20 counters between 4 people?
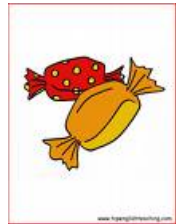
THE SULTAN'S SHOOL

How can I help my child at home?

10) Name and describe 2D and 3D shapes

•**Look at everyday objects**

e.g. A sign on the way to school – is a rectangle and has 4 corners; an orange is a ball (sphere) and can be rolled / How is a rectangle different from a square? / Can you find any objects with right angles in my bag?

•**Play games**
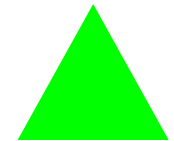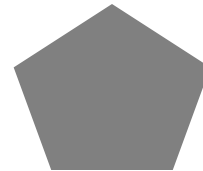
e.g. Guess my shape – explain things about a shape you are thinking of and they have to work out what shape it is / sort everyday objects into groups depending on their shape.
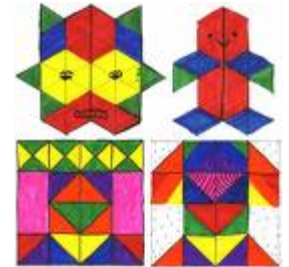
How can I help my child at home?

10) Name and describe 2D and 3D shapes

•**Get them to draw symmetrical patterns**

Using squared paper, get them to copy a pattern onto the other side / paint half a page and fold it over – what can you see? / Draw a pattern with one finger and copy with the same finger on the other hand.

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How can I help my child at home?

11) Compare objects to say which is the heaviest /lightest/ tallest / shortest and learn to weigh in g and kg; measure lengths in m, cm, mm; and measure liquids in ml and l.

•**Compare clothes / people / bags of sweets in the shops**
e.g. Who can find me the biggest bag of sweets? / Is your father taller or shorter than the door?

•**Help with cooking or making objects**
e.g. Is the bag of sugar heavier or lighter than the flour? / Can you help me to measure 200 ml of milk? /Can you weigh 300 g of sugar for me? Can you draw and cut out a square whose sides are 10 cm?)

•**Draw patterns and pictures using a ruler**

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How can I help my child at home?

12) Learn how to tell the time

•**Talk about when things happen in the day and how long things take**

e.g. In the morning, what time do we get up? Is it light or dark? Can you show me on the clock when its bedtime? / If it takes 5 hours to fly to Spain and I leave at 9.15a.m., what time will I arrive?

•**Play games about time**

e.g. How many times do you think you can write your name in one minute? /How long do you think it will take to eat your dinner? / How many seconds do you think it will take you to run to the wall and back?

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How can I help my child at home?

USE THE INTERNET

http://www.bbc.co.uk/schools/websites/4_11/site/numeracy.shtml

www.woodlandsjunior.kent.sch.uk/maths/

www.topmarks.co.uk/