

## Times table square

*Please note....*

...before encouraging a pupil to use this times table square as an arithmetic aid, ensure that the pupil understands the concepts of both multiplication and division.

You can test for this by showing times and divide sums and asking the pupil to predict the answer.

- If s/he gets the answer totally correct every time then s/he does not need this aid.
- If, on the other hand, the pupil is able to make a fairly accurate guess then s/he most probably understands the concepts and may find this aid useful.
- If the pupil's guesses are wildly out then s/he needs to be taught the concepts before being given this aid.

More on this can be found in chapter 17 of "Dyslexia –How to Win" by Dawn Matthews available on the web site below.

*Please print out the "Times table square" on off-white or white paper or card.* It has been designed to be multi-coloured and some text will be lost if printed out on coloured paper. It will be easy to read, even for those with Irlen Syndrome, because no black is used.

*Please laminate before use.*

*Do not stick it into a math book,* as then the pupil will have to be constantly flicking backwards and forwards from math sums to times tables sheet. Please keep it separate so that the pupil can put it next to the sums.

*You will note that each horizontal line is a different colour and each vertical line a different font.* I do understand that this breaks every law of design but the varied colours and fonts are used to make tracking, both up and down and side to side, easier.

*It can be used for both multiplication and division.*

*Multiplication* - Find the intersecting point between the bold numbers on the top row and on the side row. Eg.  $4 \times 5$  find 5 on the left hand side and 4 on the top and follow 5 horizontally and 4 vertically downwards and you will find 20 is the point where these lines meet

*Division* – eg.  $21 \div 7$  Find 7 on the top line and look vertically down the line until you find 21. Then go horizontally across to the left dark numbers and you will find 3. 3 is the answer.

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1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84
8	16	24	32	40	48	56	64	72	80	88	96
9	18	27	36	45	54	63	72	81	90	99	108
10	20	30	40	50	60	70	80	90	100	110	120
11	22	33	44	55	66	77	88	99	110	121	132
12	24	36	48	60	72	84	96	108	120	132	144