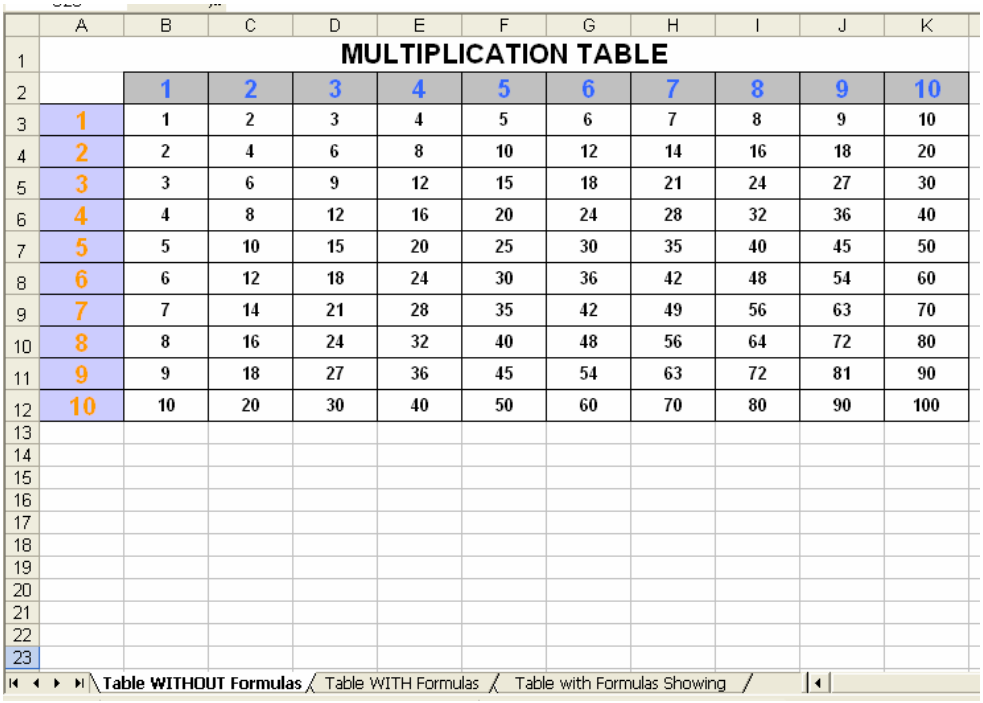
Using MicroSoft Excel to Create a Multiplication Table

- On the first worksheet tab, have students create a multiplication table similar to the one below, but initially have them calculate the products “in their heads.”



	A	B	C	D	E	F	G	H	I	J	K
1	MULTIPLICATION TABLE										
2		1	2	3	4	5	6	7	8	9	10
3	1	1	2	3	4	5	6	7	8	9	10
4	2	2	4	6	8	10	12	14	16	18	20
5	3	3	6	9	12	15	18	21	24	27	30
6	4	4	8	12	16	20	24	28	32	36	40
7	5	5	10	15	20	25	30	35	40	45	50
8	6	6	12	18	24	30	36	42	48	54	60
9	7	7	14	21	28	35	42	49	56	63	70
10	8	8	16	24	32	40	48	56	64	72	80
11	9	9	18	27	36	45	54	63	72	81	90
12	10	10	20	30	40	50	60	70	80	90	100
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											

Table WITHOUT Formulas | Table WITH Formulas | Table with Formulas Showing

- On the second worksheet tab within the same Excel file, have the students once again create the multiplication table, but this time teach them how to use formulas to calculate the products. Students will have to be taught the difference between absolute cell referencing and relative cell referencing in order to create their formulas.

- Using basic formatting tools in Excel, have the students improve the appearance of the table with alignments, boldface, colors, borders, etc.

MULTIPLICATION TABLE

	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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MULTIPLICATION TABLE

	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

MULTIPLICATION TABLE

	1	2	3	4	5	6	7	8	9	10
1	=$B$2*A3	=$C$2*A3	=$D$2*A3	=$E$2*A3	=$F$2*A3	=$G$2*A3	=$H$2*A3	=$I$2*A3	=$J$2*A3	=$K$2*A3
2	=$B$2*A4	=$C$2*A4	=$D$2*A4	=$E$2*A4	=$F$2*A4	=$G$2*A4	=$H$2*A4	=$I$2*A4	=$J$2*A4	=$K$2*A4
3	=$B$2*A5	=$C$2*A5	=$D$2*A5	=$E$2*A5	=$F$2*A5	=$G$2*A5	=$H$2*A5	=$I$2*A5	=$J$2*A5	=$K$2*A5
4	=$B$2*A6	=$C$2*A6	=$D$2*A6	=$E$2*A6	=$F$2*A6	=$G$2*A6	=$H$2*A6	=$I$2*A6	=$J$2*A6	=$K$2*A6
5	=$B$2*A7	=$C$2*A7	=$D$2*A7	=$E$2*A7	=$F$2*A7	=$G$2*A7	=$H$2*A7	=$I$2*A7	=$J$2*A7	=$K$2*A7
6	=$B$2*A8	=$C$2*A8	=$D$2*A8	=$E$2*A8	=$F$2*A8	=$G$2*A8	=$H$2*A8	=$I$2*A8	=$J$2*A8	=$K$2*A8
7	=$B$2*A9	=$C$2*A9	=$D$2*A9	=$E$2*A9	=$F$2*A9	=$G$2*A9	=$H$2*A9	=$I$2*A9	=$J$2*A9	=$K$2*A9
8	=$B$2*A10	=$C$2*A10	=$D$2*A10	=$E$2*A10	=$F$2*A10	=$G$2*A10	=$H$2*A10	=$I$2*A10	=$J$2*A10	=$K$2*A10
9	=$B$2*A11	=$C$2*A11	=$D$2*A11	=$E$2*A11	=$F$2*A11	=$G$2*A11	=$H$2*A11	=$I$2*A11	=$J$2*A11	=$K$2*A11
10	=$B$2*A12	=$C$2*A12	=$D$2*A12	=$E$2*A12	=$F$2*A12	=$G$2*A12	=$H$2*A12	=$I$2*A12	=$J$2*A12	=$K$2*A12

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