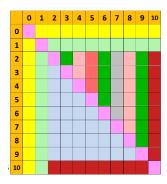
Times tables: Looking for patterns

Our number system is full of patterns!

Discovering patterns:

- 1. Allows us to see beauty in numbers!
- 2. It helps us take shortcuts and be better at manipulating numbers (solving problems)



Activity

Use the 15×15 grid

We will look for patterns in the grid therefore it is **VERY important that you fill in the grid in the following order**

Tick as you go

Part 1

- 1. Fill in the 2's column and Row
- 2. Leave the 3's for now
- 3. DOUBLE each 2's answer to fill in the 4's column
- 4. Double each 2's answer to fill in the 4's row
- 5. Leave the 5,6,7 for now
- 6. DOUBLE the 4's column filled in (step 3) and fill in the 8's column
- 7. Double the 4's row filled in (step 4) and fill in the 8's row

Question: Why can we do this? Is this an easier way to think about our 8 times tables?





Part 2

1. Fill in the 3 times table row/column
2. DOUBLE the row/column and fill in across and down the 6 times table row/column
Question: Why can we do this? Is this an easier way to think about our 6 times tables? Can we now double again for the 9 times table row/column? Why or why not?
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Part 3
1. Fill in the 9 times table row/column
2. Fill in the 1; 5 and 10 times row/column (most people find this very easy to do)
What is left? Why do you think this number is left?
Highlight the numbers diagonally down the middle - these are special numbers - what are they called?
From the grid, what are examples of factors and what are examples of multiples?





	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1															
2															
3															
4															
5															
6															
7															
8															
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