

Sequences:

2, 4, 6, 8, 10 ... “Multiples of 2”

1, 4, 9, 16, 25 ... “The squares: $1^2, 2^2, 3^2, 4^2, 5^2$, etc.”

1, 8, 27, 64, 125 ... “The cubes: $1^3, 2^3, 3^3, 4^3, 5^3$, etc.”

5, -10, 15, -20, 25 ... “Multiples of 5, with alternating signs.”

4, 12, 36, 108, 324 ... “Multiply each term by 3”

1, 1, 2, 3, 5 ... “Add the previous two terms (Fibonacci)”

1, 2, 4, 8, 16 ... “Powers of 2: $2^0, 2^1, 2^2, 2^3, 2^4$, etc.”

$3x + 1, 6x + 2, 12x + 4, 24x + 8, 48x + 16$... “Double the previous term.”

1, 2, 2, 4, 8 ... “Multiply the previous two terms.”

Extension:

If your student is a visual learner, you may want to copy the patterns using large writing. That way, you can unveil the numbers one at a time for him to see, in addition to hearing them.

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