

# School House Rock

Write the numbers you hear in the song in order starting with the number given.

“Naughty Number Nine”

“My Hero, Zero”

1 <sup>st</sup> number	9	1 <sup>st</sup> number	10
2 <sup>nd</sup> number		2 <sup>nd</sup> number	
3 <sup>rd</sup> number		3 <sup>rd</sup> number	
4 <sup>th</sup> number		4 <sup>th</sup> number	
5 <sup>th</sup> number		5 <sup>th</sup> number	
6 <sup>th</sup> number		6 <sup>th</sup> number	
7 <sup>th</sup> number		7 <sup>th</sup> number	
8 <sup>th</sup> number		8 <sup>th</sup> number	
9 <sup>th</sup> number		9 <sup>th</sup> number	
10 <sup>th</sup> number		10 <sup>th</sup> number	

How would you get the next number on each list?

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Come up with a mathematical formula for getting the  $n^{\text{th}}$  term in each list.

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Use your formula to find the 100<sup>th</sup> number on each list.

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Both lists begin with about the same value (9 is close to 10), but the numbers in the lists diverge quickly. Explain why.

What is the name of each of these lists (series, formulas)?

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