	Arithmetic Sequence	Geometric Sequence
Recursive formulation	$a_1=a,\ a_n=a_{n-1}+d$ Start somewhere and add d	$a_1=a,\ a_n=ra_{n-1}$ Start somewhere and multiply by r
Formula for n^{th} term	$a_n= a + d(n-1)$ d add n-1 times to a	$a_n= ar^{n-1}$ a multiplied by r n-1 times
Sum of series	$S_n = \frac{n}{2}(a + a_n)$ Based on Gauss's trick	$S_n = a\frac{1-r^n}{1-r}$ If r doesn't equal 0 or 1
		$\sum_{k=1}^{\infty} ar^{k-1} = \frac{a}{1-r}$ |r|<1