Linear nth term rule.

Literaçy
Unscramble the anagrams and define the words.

| netatpr | eqensuce |
| :--- | :--- |
| mert | lure |
| ficedfener |  |

Skill 1

List the first five terms of the sequences.

1) $3 n$
2) $2 n+4$
3) $5 n-4$
4) $0.5 n$
5) $9-3 n$
6) $n^{2}$

Skill 2
Find the nth term rule of each linear sequence

1) $3,5,7,9, \ldots$
2) $4,11,18,25, \ldots$
3) $4,9,14,19, \ldots$
4) $12,4,-4,-12,-20$
5) 



## Research

When finding the nth term rule remember to find the differences between the terms. This

What is Fibonacci sequence and where is it seen within nature.


Stretch Find the nth term rule of these quadratic sequences

1) $2,8,18,32,50, \ldots$
2) $3,6,11,18,27, \ldots$
3) $0,6,16,30,48, \ldots$

Challenge
What is the $20^{\text {th }}$ term of each sequence?

