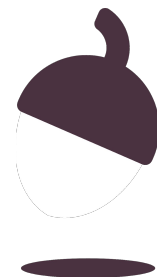Maths

Independent Task
To develop strategies to plan and solve problems

Mr Critchlow

OAK
NATIONAL
ACADEMY

To Start

	4	8	7	10	5	6	9	2	3
4									
9									
8									
10									
11									
12									
6									
7									
5									

Moving on

Can you work out how many blocks would be needed to make the first 6 steps in the sequence?

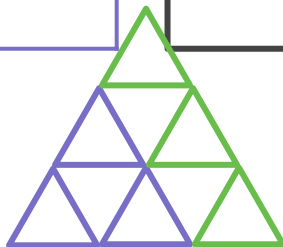| Step	Total triangles
1	1
2	4
3	
4	
5	
6	

What is the rule of this sequence? What happens to the total number of triangles each time? Explain in a sentence:

_____

_____

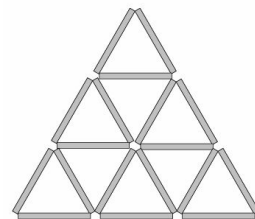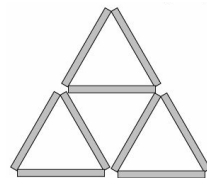_____

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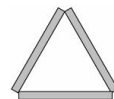# Main task

Step	new matches	Total matches	Triangles
1	3	3	1
2	6	9	4
3			
4			
5			
6			
7			
8			

Challenge

Step	new matches	Total matches	Triangles
1	3	3	1
2	6	9	4
3	**9**	**18**	**9**
4	**12**	**30**	**16**