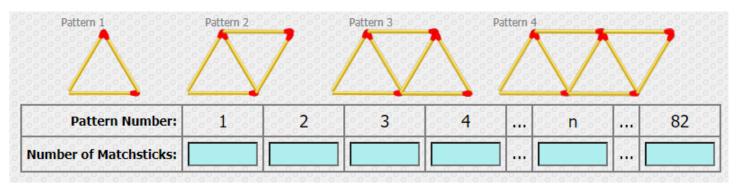
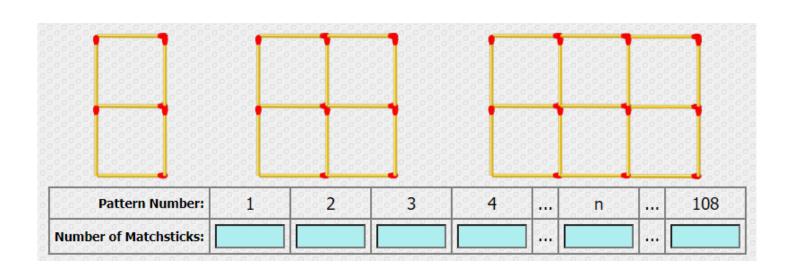
#### Steps to Success

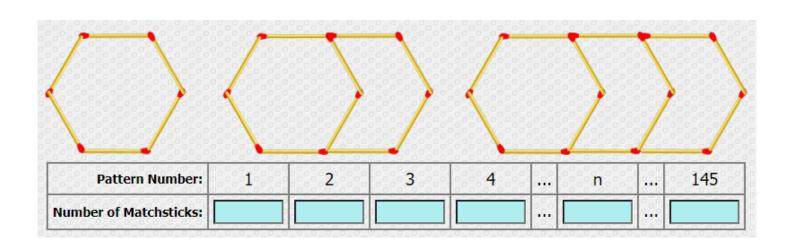
Lockdown					
Date	<u>03.02.21</u>				
Subject/s	<u>Maths</u> ,				
Leaming Objective	Tσ create patterns and write the rule				

					SA	TA	
Success Criteria	I can create an increasing pattern with objects						
✓! 🗐	I can discuss what I am adding each time						
*	I can write the rule	using the pattern nu	ımber ar	rd what it is			
	increasing by						
Support	Independent	Adult Support (	)	Group Work			
<u>Pre-task</u>							
Describe what is happening in the pattern.							
How many match sticks is t	he next pattern going	to have?					
What is the rule?							

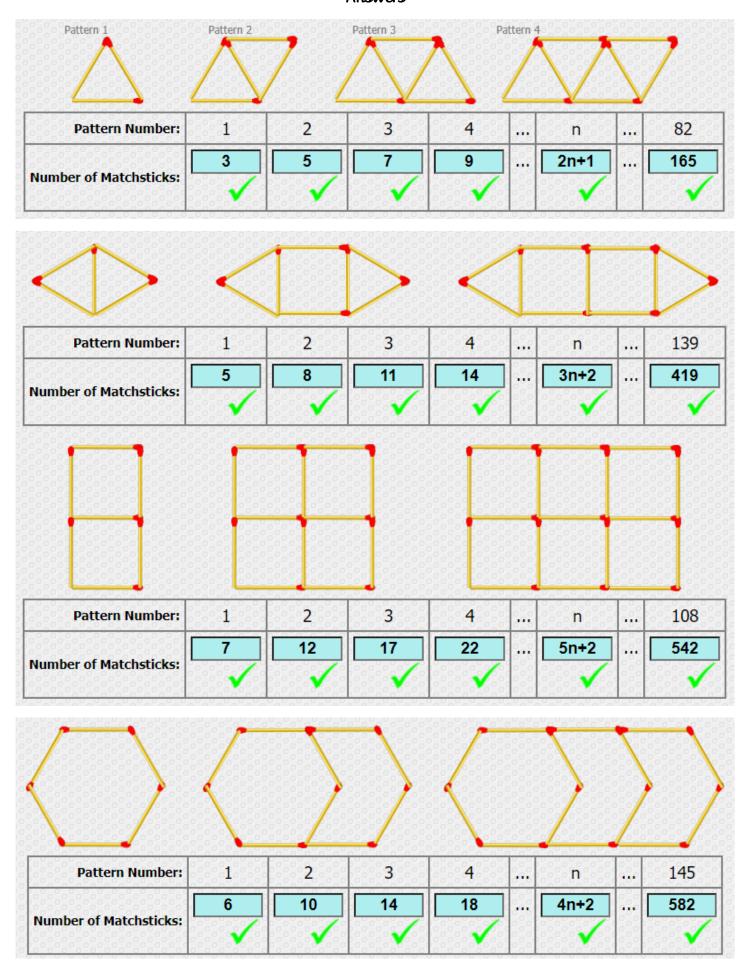
## Fluency







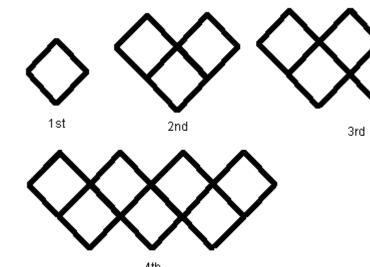
#### **Answers**



## Prove it!









Jack says the rule for this pattern is n+6. Correct or incorrect? Why?

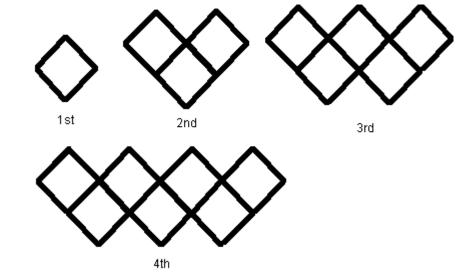
Prove it!

# Prove it!

# Problem Solving and Reasoning



Explain it!





Jack says the rule for this pattern is n+6. Correct or incorrect? Why? Prove it!

#### Further Challenge

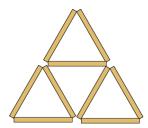
I was exploring a puzzle in which headless match sticks had to be moved to make a different number of triangles.

I made one small triangle



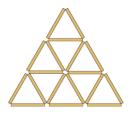
3 matches

I made it into 4 small triangles by adding 6 matches.



9 matches

I added another row and counted the number of small triangles and counted the matches.



I made a table of my results and continued adding rows. I found many patterns.

Have a go and see what patterns you can find.

Find a good way to record your results. See if you can predict the numbers for rows of triangles you have not drawn.