

## 9Maths: Patterns and Relationships Assessment

Name: \_\_\_\_\_

Teacher: \_\_\_\_\_

The assessment for this topic requires you to produce some form of visual presentation (poster, powerpoint, video) that includes the following elements listed in the table below.

You need to design your own linear pattern (it must go up by the same amount each time). It would be great if you could base this on some aspect of who you are (your ethnicity, nationality, hobbies, sports, interests, family).

Once you have designed a pattern, you must get it checked by your teacher before you move on with the rest of the assessment.

Success Criteria	Achieved	Merit	Excellence	Completed
<ul style="list-style-type: none"> <li>design a linear pattern</li> </ul>				
<ul style="list-style-type: none"> <li>Your teacher needs to check your pattern now!</li> </ul>	Teacher signature: _____			
<ul style="list-style-type: none"> <li>continue the pattern for at least 5 terms</li> </ul>				
<ul style="list-style-type: none"> <li>draw up a table to represent the relationship between the variables in your pattern</li> </ul>				
<ul style="list-style-type: none"> <li>describe the pattern in words</li> </ul>				
<ul style="list-style-type: none"> <li>draw an accurate graph to represent the pattern (graph must have axes labelled correctly)</li> </ul>				
<ul style="list-style-type: none"> <li>write an equation to represent your pattern</li> </ul>				
<ul style="list-style-type: none"> <li>for pattern number 50, how many "things" will be in your pattern?</li> </ul>				
<ul style="list-style-type: none"> <li>now design a new pattern, which is slightly different from your original pattern</li> </ul>				
<ul style="list-style-type: none"> <li>draw an accurate graph to represent your new pattern</li> </ul>				
<ul style="list-style-type: none"> <li>write an equation to represent your new pattern</li> </ul>				
<ul style="list-style-type: none"> <li>discuss in detail how the changes you made to your pattern: changed what your graph looked like and changed your equation</li> </ul>				
<ul style="list-style-type: none"> <li>discuss in detail, why these changes happened</li> </ul>				

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