Name: Teacher: Class:

**6.3 Pattern Sniffing**

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| **You need to learn to:** | **Pre-learning assessment** | **Post-learning assessment** |
| 1. Use the vocabulary of a sequence | *1,2,3* | *1,2,3* |
| 2. Recognise a linear sequence | *1,2,3* | *1,2,3* |
| 3. Describe a number sequence | *1,2,3* | *1,2,3* |
| 4. Find the next term in a linear sequence | *1,2,3* | *1,2,3* |
| 5. Find a missing term in a linear sequence | *1,2,3* | *1,2,3* |
| 6. Generate a linear sequence from its description | *1,2,3* | *1,2,3* |

**Assessments**

|  |  |  |
| --- | --- | --- |
| Assessment | What score **I think** I’ll get out of 40(complete **before** assessment) | What score **I did** get out of 40(complete **after** assessment) |
| Diagnosis assessment | /25 = % | /25 = % |
| Test assessment | /25 = % | /25 = % |

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**6.3 Pattern Sniffing**

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| **You need to learn to:** | **Pre-learning assessment** | **Post-learning assessment** |
| 1. Use the vocabulary of a sequence | *1,2,3* | *1,2,3* |
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**Assessments**

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| --- | --- | --- |
| Assessment | What score **I think** I’ll get out of 40(complete **before** assessment) | What score **I did** get out of 40(complete **after** assessment) |
| Diagnosis assessment | /25 = % | /25 = % |
| Test assessment | /25 = % | /25 = % |

**6.3 Pattern Sniffing** Date:

**Diagnosis (to be taken before the topic is taught)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Question n.o.** | **Question** | **Workings and answer** | Macintosh HD:private:var:folders:65:l364j7q962v4_xf3302b347w0000gn:T:TemporaryItems:imgres.jpg |
| 1 | Write a definition for the following:-1. Sequence
2. Linear sequence
3. Term
4. Term to term rule
 |  | (4) |
| 2 | Which of the following are linear sequences?1. 1, 4, 9, 16, …
2. 13, 17, 21, 25, …
3. 22, 19, 16, 13, …
4. 1, 1, 2, 3, 5, …..
5. 0.7, 0.9, 1.1, 1.3, …
6. 5, 9, 14, 20, 27, …
7. 6, 3, 6, 3, 6, 3, …
8. -7, -5, -3, -1, …
 |  | (4) |
| 3 | Describe the rule for each sequence1. 35, 39, 43, 47, …
2. 59, 56, 53, 50, …
3. -8, -6, -2, 0, …..
4. 0.25, 0.5, 0.75, 1, ….
 |  | (4) |
| 4 | Write the next term for each sequence1. 35, 39, 43, 47, …
2. 59, 56, 53, 50, …
3. -8, -6, -4, -2, …..
4. 0.25, 0.5, 0.75, 1, ….
 |  | (4) |
| 5 | Find the missing numbers from the following sequences.1. 3, ⊡, 11, 15, …
2. 27, ⊡, 37, 42, …
3. 8, ⊡, ⊡, 20, …
4. ⊡, 10, ⊡, 4, …
5. ⊡, ⊡, 6, 6.5
6. ⊡, 28, 36, ⊡
 |  | (6) |
| 6 | Write the first 4 terms of the following sequences.a) The first term is 7, the term to term rule is add 9b) The sequence decreases by 6 each time, the first term is 36c) A linear sequence increases by 0.5 from term to term. The first term is 9. |  | (3) |

**6.3 Pattern Sniffing** Date:

**Test (to be taken after the topic is taught)**

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| --- | --- | --- | --- |
| **Question n.o.** | **Question** | **Workings and answer** | Macintosh HD:private:var:folders:65:l364j7q962v4_xf3302b347w0000gn:T:TemporaryItems:imgres.jpg |
| 1 | Write a definition for the following:-1. Sequence
2. Linear sequence
3. Term
4. Term to term rule
 |  | (4) |
| 2 | Which of the following are linear sequences?1. 1, 3, 6, 10, …
2. 23, 27, 31, 35, …
3. 5, 2, -1, -4, …
4. 10, 10, 20, 30, 50, …..
5. 2.2, 2.5, 2.8, 3.1, …
6. 15, 19, 24, 30, 37, …
7. 0, 4, 0, 3, 0, 2, …
8. -11, -15, -19, -23, …
 |  | (4) |
| 3 | Describe the rule for each sequence1. 22, 27, 32, 37, …
2. 29, 25, 21, 17, …
3. -10, -6, -2, 2, …..
4. 5.25, 5.5, 5.75, 6, ….
 |  | (4) |
| 4 | Write the next term for each sequence1. 22, 27, 32, 37, …
2. 29, 25, 21, 17, …
3. -10, -6, -2, 2, …..
4. 5.25, 5.5, 5.75, 6, ….
 |  | (4) |
| 5 | Find the missing numbers from the following sequences.1. 14, ⊡, 24, 29, …
2. 34, ⊡, 26, 22, …
3. 17, ⊡, ⊡, 26, …
4. ⊡, 2, ⊡, 10, …
5. ⊡, ⊡, 10.5, 11
6. ⊡, 104, 110, ⊡
 |  | (6) |
| 6 | Write the first 4 terms of the following sequences.a) The first term is 12, the term to term rule is add 5b) The sequence decreases by 3 each time, the first term is 15c) A linear sequence increases by 0.5 from term to term. The first term is 7. |  | (3) |