**Patterning and Algebra**

**Unit 1 Line Master 3a**

Patterns Involving Integers

The pattern I chose is:

|  |  |
| --- | --- |
| ***x*** | ***y*** |
| −1 |  |
| 0 |  |
| 1 |  |
| 2 |  |

1. a) Every time *x* increases by 1, how does *y* change?

b) Describe the relationship between *x* and *y* in words.

3. Complete the table of values.

|  |  |
| --- | --- |
| **Term number** | **Term value** |
| −1 |  |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |

**Patterning and Algebra**

**Unit 1 Line Master 3b**

Patterns Involving Integers (cont’d)

4. Draw a graph to represent the pattern.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Patterning and Algebra**

**Unit 1 Line Master 3c**

Patterns Involving Integers (cont’d)

5. Is the pattern linear?  
 How can you tell?

6. Is the pattern increasing or decreasing?  
 How can you tell?