**Algebra
Unit 1 Line Master 6a**

 Representing and Extending Patterns

1. Draw terms 0 to 3 of your pattern and complete the table.

|  |  |
| --- | --- |
| **Term number** | **Term value** |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |

2. a) Write an algebraic expression to represent your pattern.

 b) Assume that your pattern continues.
 What is the term value when the term number is 10?
 When the term number is 100?
 How do you know?

 Representing and Extending Patterns

 (cont’d)

**Algebra
Unit 1 Line Master 6b**

3. a) Use your algebraic expression to determine the value

 of a term between term 11 and term 99.

 b) Write your answer to part a) in the blank space in Question 3
 on Master 7. Write your name and your partner’s name
 at the top of Master 7 as the people who created the pattern.
 Remove the tiles for terms 0, 1, and 5 from your pattern.
 Leave terms 2, 3, and 4 of your pattern and your copy of
 Master 7 for another group to explore.