**Notes: Linear Growth using Stacking Towers**

slope – intercept form of a line : 

 *in other words . . .* 

**Example 1:**





How is the pattern changing **(*m*)** ? \_\_\_\_\_\_\_

How many piece(s) were there in the beginning - step 0 **(*b*)** ? \_\_\_\_\_\_\_

Write an equation *y* = **m***x* + **b** to represent the pattern \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Example 2:**





How is the pattern changing **(*m*)** ? \_\_\_\_\_\_\_\_

How many piece(s) were there in the beginning - step 0 **(*b*)** ? \_\_\_\_\_\_\_\_

Write an equation *y* = **m***x* + **b** to represent the pattern \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Example 3:**





How is the pattern changing **(*m*)** ? \_\_\_\_\_\_\_\_

How many piece(s) were there in the beginning - step 0 **(*b*)** ? \_\_\_\_\_\_\_\_

Write an equation *y* = **m***x* + **b** to represent the pattern \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Example 4:**



How is the pattern changing **(*m*)** ? \_\_\_\_\_\_\_\_ 

How many piece(s) were there in the beginning - step 0 **(*b*)** ? \_\_\_\_\_\_\_\_

Write an equation *y* = **m***x* + **b** to represent the pattern \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

Period: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_

**Assignment: Linear Growth using Stacking Tower**

Problem 1:





How is the pattern changing **(*m*)** ? \_\_\_\_\_\_\_\_

How many piece(s) were there in the beginning - step 0 **(*b*)** ? \_\_\_\_\_\_\_\_

Write an equation *y* = **m***x* + **b** to represent the pattern \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write Equations for each linear growth pattern.

Problem 2: Problem 3: Problem 4:





Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Problem 5: Problem 6: Problem 7:



Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Create **3** drawings of linear growth patterns.

One must have a positive slope and one must have a negative slope.

Problem 8: Problem 9: Problem 10:

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Notes: Linear Growth using Stacking Towers**

slope – intercept form of a line : 

 *in other words . . .* 

**Example 1:**





How is the pattern changing **(*m*)** ? \_\_\_  \_\_\_\_

How many piece(s) were there in the beginning - step 0 **(*b*)** ? \_\_\_ 2 \_\_\_\_

Write an equation *y* = **m***x* + **b** to represent the pattern \_\_\_ \_\_\_

**Example 2:**





How is the pattern changing **(*m*)** ? \_\_\_  \_\_\_\_

How many piece(s) were there in the beginning - step 0 **(*b*)** ? \_\_\_ 1 \_\_\_\_

Write an equation *y* = **m***x* + **b** to represent the pattern \_\_\_ \_\_\_

**Example 3:**





How is the pattern changing **(*m*)** ? \_\_\_  \_\_\_\_

How many piece(s) were there in the beginning - step 0 **(*b*)** ? \_\_\_ 10 \_\_\_\_

Write an equation *y* = **m***x* + **b** to represent the pattern \_\_\_ \_\_\_

**Example 4:**



How is the pattern changing **(*m*)** ? \_\_\_  \_\_\_\_

How many piece(s) were there in the beginning - step 0 **(*b*)** ? \_\_\_ 0 \_\_\_\_

Write an equation *y* = **m***x* + **b** to represent the pattern \_ \_\_\_

 or 

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

Period: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_

**Assignment: Linear Growth using Stacking Tower**

Problem 1:





How is the pattern changing **(*m*)** ? \_\_\_ \_\_\_\_

How many piece(s) were there in the beginning - step 0 **(*b*)** ? \_\_\_ 2 \_\_\_\_\_

Write an equation *y* = **m***x* + **b** to represent the pattern\_ \_\_\_

Write Equations for each linear growth pattern.

Problem 2: Problem 3: Problem 4:



Equation: \_  \_\_ Equation: \_  \_\_ Equation: \_  \_\_

Problem 5: Problem 6: Problem 7:



Equation: \_  \_\_ Equation: \_  \_\_ Equation: \_  \_\_

 \_  \_\_ \_  \_\_

Create 3 drawings of linear growth patterns.

One must have a positive slope and one must have a negative slope.

Problem 8: Problem 9: Problem 10:

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_