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

Block: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 1 – General Sequences**

1. What is the definition of a sequence?
2. Is the sequence defined by  explicit or recursive? How do you know? List the first four terms of the sequence.
3. Is the sequence defined by  explicit or recursive? How do you know? List the first four terms of the sequence.
4. What does  represent in a sequence?
5. List the next 3 terms in the sequence: 3, 6, 11, 18, 27, \_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_
6. List the next 3 terms in the sequence: 75, 72, 69, 66, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_

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

Block: \_\_\_\_\_\_\_\_

**Station 2 – General Series**

1. What is the definition of a series?
2. What does the symbol  mean? What is the name of the symbol?
3. Evaluate the following:
	1. 
	2. 
	3. 
4. Write the following using series notation: 2+4+6+8+…+30

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

Block: \_\_\_\_\_\_\_

**Station 3 – Arithmetic Sequences – Part 1**

1. What is the definition of an arithmetic sequence?
2. What does the letter d represent in the formula for an arithmetic sequence?
3. We’ve looked at 2 explicit formulas for an arithmetic sequence. What are they?
4. Determine if the following sequences are arithmetic. If so, give the value of d.
	1. 2, 4, 8, 16, 32, …
	2. 4, 4.5, 5, 5.5, …
	3. 81, 79.5, 78, 76.5, …
5. List the first four terms of the sequence: 
6. Find the 35th term of the sequence: 

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

Block:\_\_\_\_\_\_\_\_\_

**Station 4 – Arithmetic Sequences -Part 2**

1. Write an explicit formula for the following sequences:
	1. 6, 8, 10, 12, 14….
	2. -50, -45, -40, -35, …
2. Given that  and , find the value of the common difference.
3. Given that  and , find the value of .
4. Use your answers to the first two problems to write an explicit formula for an arithmetic sequence with  and 
5. Write an explicit formula for an arithmetic sequence with  and 