Strand:	Algebra	Name:		
Skill Addressed:	Linear Relationships Explored	Blk:		
Activity:	Part 3: Arithmetic Sequence			

The following are examples of Arithmetic Sequences:

3, 5, 7, 9, 11... 15, 10, 5, 0, -5... 13, 16, 19, 22, 25...

Consider the last example 13, 16, 19, 22, 25... What do you notice about each subsequent term of this sequence?

What must you do to find the next missing term?

Arithmetic Sequence Definitions and Vocabulary:

<i>Common Difference:</i>	the difference between any term and the term before it ex) $22 - 19 =$	
<i>First Term:</i> first	the term where the sequence begins. Here the term is 13.	
<i>The n<sup>th</sup> Term:</i> sequence. term? It may	a general rule for finding any term of the For example, how could you find the 8 <sup>t</sup> help to write a table:	

Term #	1	2	3	4	5	6	 n
Term Value							

Can you find a formula for the n<sup>th</sup> term?