UNIT 5	LESSON 2	
AIM: How can create and use the explicit for	mula to find the "nth" term of an Arithmetic	Sequence?
Explicit Formula	Vocabulary of Sec $a_1 \rightarrow First term$	quences
$a_n = a_1 + d(n-1)$	$a_{\scriptscriptstylen} o nth$ term	
$u_1 \cdot u_2 = 0$	$n \rightarrow$ number of te	erms
	d ightarrow common different	erence
An is used to defice an calculate the value of the term.	ine the pattern of sequences. Using the explici	it formula you
1. Given the sequence 8, 14, 20, 26, 32	Some	ience a _n
a) Write the explicit formula.	ter	
a) write the explicit formula.	$d = \frac{a_1}{a_1}$	
	$\mathbf{a_2}$	
	a ₃	
	a3	
	a ₄	
	a ₅	
b) Use the explicit formula to find the 20 th term (a ₂₀)	1.	
o) ese une empriori formata to fina une 25 term (a ₂₀)		
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Date: _____

Name: __

2. Given the arithmetic sequence 18, 23, 28, 33, 48		[~]	
1 7 7 7	$a_1=$		a_n
a) Write the explicit formula	J	term	
	d =	$\mathbf{a_1}$	
		$\mathbf{a_2}$	
		$\mathbf{a_3}$	
		$\mathbf{a_4}$	
		\mathbf{a}_5	
INTERNAL PROPERTY OF THE ACTUAL ACTUA			
b) Use the explicit formula to find the 16 th term (a ₁₆).			
3. Given the arithmetic sequence 5, 1, -3, -7		Saguenge	
	$a_1=$		a _n
		term	a _n
3. Given the arithmetic sequence 5, 1, -3, -7a) Write the explicit formula	$a_1 = d =$		a _n
		term a ₁	a _n
		term	a _n
		term a ₁	a _n
		term a ₁	a _n
		term a ₁ a ₂	a _n
		term a ₁ a ₂ a ₃	a _n
		term a ₁ a ₂	an
		term a ₁ a ₂ a ₃ a ₄	a _n
		term a ₁ a ₂ a ₃	a _n
		term a ₁ a ₂ a ₃ a ₄	an
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	an
		term a ₁ a ₂ a ₃ a ₄	an
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	an
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	an
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	an
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	an
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	a _n
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	an
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	an
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	an
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	a _n
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	a _n
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	a _n
a) Write the explicit formula		term a ₁ a ₂ a ₃ a ₄	a _n

	ven the arithmetic	1					q		
a) Wı	rite the explicit form	ıla				$a_1=$	Seque ter		a _n
						d =	$\mathbf{a_1}$		
							$\mathbf{a_2}$		
							a ₃		
							a ₄		
							a ₅		
) Use	e the explicit formula	to find the 34	4 th term (a ₃₄).						
			4.						
. Us	se an explicit formula	to find out w	what the 50 th term	n in this sequer	nce would	be?	Sequence	a	
. Us	se an explicit formula	to find out w	what the 50 th term	n in this sequei	nce would	be? $a_1=$	Sequence term	a _n	
. Us	se an explicit formula	to find out w	what the 50 th tern	n in this sequei	nce would			a _n	
				::::	:	$a_1=$	term	a _n	
		to find out w	what the 50 th term	n in this sequer	:	$a_1=$	term a ₁	a _n	
:				::::	:	$a_1=$	term a ₁ a ₂	a _n	
:				::::	:	$a_1=$	term a ₁ a ₂ a ₃	a _n	

UNIT 5

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7. Write an equation for the nth term of the arithmetic sequence -7, -2, 3, 8, ...

a.
$$a_n = n + 5$$

b.
$$a_n = 5n - 12$$

c.
$$a_n = -7n + 12$$

d.
$$a_n = -7(n+5)$$

- 6. Find the 25^{th} term of the arithmetic sequence in which $a_1=5$ and d=4
 - a. 100
 - b. 124
 - c. 101
 - d. 125

8. A theater has 60 seats in the first row, 68 seats in the second row, 76 seats in the third row, and so on in the same increasing pattern. If the theater has 10 rows, how many seats are in the 10th row?