MM ALGEBRA 1 Ms. Peng/ Mr. Villegas			
Ms. P	eng/	Mr.	Villegas

Name:	 	
Date: _		

A Wonderland Lost

Aim/Essential Question: How	v do v	we write the rule of an exponential function?
Do Now:		
Is the difference between 2^2 and 2^3 the same as the difference between 2^3 and 2^4 ? Why or why not?		
Important term	Defi	nition
If I wanted to calculate Alice height after eating 100 ounc of the "doubling cake," how could I do it? Explain in wor	ces	
Using f to represent the function, how can you write equation for the "doubling cake" using function notation		
If I wanted to calculate Alice height after eating 100 ounc of the "tripling cake," how co I do it? Explain in words.	ces	
Using g to represent the function, how can you write equation for the "tripling cal using function notation?		
Where would each graph crothe y-axis? What will happe the graphs as x becomes negative?		
Do the effects of the cake had more or less of an impact as eats more cake? Why?		

As you read the task below, underline any word you think might be important. Write a question mark next to any concept you don't understand and circle any word you don't understand. Draw a box around the question or task you are being asked to complete, if any, and number the prompts.

A Wonderland Lost

The Amazon rain forest is gradually being destroyed by pollution and agricultural and industrial development. For simplicity, suppose that each year, 10% of the remaining forest is destroyed. Assume, also for simplicity, that the present area of the Amazon rain forest is 1,200,000 square miles.



1a. What will the area of the forest be after 1 year of this destruction process?	
1b. What will the area of the forest be after 2 years of this destruction process?	

2. Make a graph showing		
your results from Question		
		 +++++
1 and continuing through 5		
years of the destruction		
process. Include the		
present situation as a point		
on your graph.		
3. Find a rule for how much		
rain forest will remain after		
x years. That is, express the		
area of the rain forest as a		
function of x.		
Turiction of X.		
45 1 1 1 1 1 1 1		
4. Explain how this situation		
and graph relate to Alice's		
situation.		