Name:		Unit 6: Exponents	& Exponential Functions	
Date:	Bell:	·	rponential Growth & Decay	
	** This is a 2-page document! **			
Directions: Write the formula for each function below.				
EXPONENTIAL GROWTH FUNCTION		EXPONENT	IAL DECAY FUNCTION	
Directions: Read each problen	n carefully choose th	e correct model ther	n solve	
1. Annual sales for a fast food restaurant are \$650,000 and are increasing at a rate of 4% per year. Use an exponential function to find the annual sales after 7 years.				
2. The population of a town is 2 function to find the population			er year. Use an exponential	
3. Daniel's Print Shop purchased Use an exponential function t	•	•	•	
4. The population of a school is exponential function to find the			f 2% per year. Use an	
5. Kathy plans to purchase a ca is \$21,000. Use an exponent				

6. During a certain period of time, about 70 northern sea otters had an annual growth of 18%. Use an exponential function to find the number of sea otters after 4 years.
7. A population of fish starts at 8,000 and decreases by 6% per year. Use an exponential function to find the population of fish in 10 years.
8. Twenty years ago, Mr. Davis purchased his home for \$160,000. Since then, the value of the home has increased about 5% per year. Use an exponential function to find the value of the home today.

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