5e Calculus Concepts LaTorre, et al. Name: Group Members Present:			Learning Activity 1.11 page 1 of 2	Choosing a Model Part 2 Grade:				
				&				
1	The six model types presented in Sections 1.4 through 1.11 of CC5e are cubic, exponential, linear, logarithmic, logistic, and quadratic. For each of the descriptions, list the model type(s) that might be appropriate.							
а	ì.	a scatter plot appearing to have li	ittle or no curvature					
t	Э.	a scatter plot suggests a curve that	at is concave up with no chang	ge in curvature				
c) .	a scatter plot that is decreasing as up	nd suggests a curve that chang	ges from concave down to concave				
c	1.	a scatter plot that is increasing ar	nd suggests a curve that is con	cave down				
e).	a scatter plot that appears to be le	eveling off at both ends					
f		a scatter plot that appears to be let the other end	eveling off at one end but show	ws no indication of leveling off at				

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2. The table shows the amounts spent on reducing the size of classes in first-grade through third-grade classrooms in Nevada.

Year	1990	1992	1994	1996	1998
Spending (million \$)	\$3	\$31	\$37	\$42	\$66

- a. Describe the direction and concavity suggested by the scatter plot.
- b. What model type is suggested by the behavior of the scatter plot?
- c. Write a model for spending as a function s of x, the number of years since 1990.
- d. Evaluate s(3) and s(10).
- e. Interpret the results from part c.