IB MYP Math 9 Standard Level	ΙB	MYP	Math	9	Standard	l Level
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Exponential Modeling Checklist

Step 1: Data Intro – Table – Graph

Project Title					
Organize data in a table					
Display data using a scatterplot					
(- \ X	\ X				

Step 2: Equation
$$y = a(b)^x$$
 $b = (1+r)^x \underline{OR} b = (1-r)^x$

Calculate the constant multipliers between each data value					
Identify the starting value	Justify your starting value				
Identify the constant multiplier	Justify your constant multiplier				
Write Equation					
Verify the equation by substituting data from your table into equation.					
Write a statement commenting on the validity of the equation					

Step 3: Analysis (Using Table-Graph-Equation)

Interpret the real-life meanings of your equation:					
Starting value	Constant multiplier				
r (rate % of growth/decay)					
Dependent variable (y-value)	Independent variable (x-value)				
Use equation to make a predict	tion that is outside the collected data.				
Discuss the accura	cy of the prediction				
Use equation to make a predict	tion that is <i>inside</i> the collected data set.				
Discuss the accura	cy of the prediction				
Write a conclusion of the pro	iect.				

Questions to consider for the conclusion:

- What does the data show?
- What impact does this data have on me or my family?
- What impact does this project have on our community or society?