Write a story that can be modeled with a piecewise function. Your story needs to be creative and school appropriate. Choose one of your interests or make up your own story. The length of the story needs to be between one half to a full page. Your piecewise function needs to have at least three pieces.

Please create a Google Sheets presentation or Poster.

Include all of the following:

- Title to indicate context of your story
- Written version of your story
- Video version of your story
- Graph of your function (Desmos or on paper) <u>Desmos Instructions</u>
- Equation
- A table of values that contains points from all pieces of your function
- Key features of your function including their interpretation in context

Identify and interpret the following key features.

Key Feature	Identify, use interval notation when possible.	Interpret in Context
Domain		
Range		
Intervals of Increase		
Intervals of Decrease		
Intervals where Constant		
x-intercept(s)		
y-intercept		
Relative maximum(s)		
Relative minimum(s)		
Absolute maximum		
Absolute Minimum		
End Behavior		
Continuous or Discontinuous		

Evaluate the function for the following values, if the provided values are not in your domain or range then change the values to better fit your story. Indicate their locations on your graph and what the point means in the context of your story.

Evaluate	Explain with words what the point means in the context of your story.
f(2) =	
f(x) = 10, x =	