Experiment 12 Worksheet: How Acid Rain is Destroying History

Purpose: (*A statement should be made here regarding what your experiment is designed to accomplish.*)

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Procedure: (*Describe here how you went about completing your experiment. Use enough detail that someone could repeat it, if necessary. Also reference any books or manual you may have used to assist you.*)

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Data:

Marble Chip Data in 1.0 M _____ Acid

Time	Description	Weight
Initially		
After 15 Minutes		
After 30 Minutes		
After 45 Minutes		
After 1 hour		

What percentage of mass was lost during the hour time? _____

If the trend continued as shown by your data above, how much mass would be lost in 1 day (24 hours), 1 month (30 days) and 1 year (365 days)?

Marble Chip Data in 3.0 M _____ Acid

Time	Description	Weight
Initially		
After 15 Minutes		
After 30 Minutes		
After 45 Minutes		
After 1 hour		

What Percentage of mass was lost during the hour time? _____

If the trend continued as shown by your data above, how much mass would be lost in 1 day (24 hours), 1 month (30 days) and 1 year (365 days)?

Calculations:

Using the graph paper provided at the back of your lab manual, create a graph of the loss of mass versus time for the two acid concentrations. Show calculations of how you determined the amount of mass that would be lost in a day, month and year.

Conclusions: (*Summarize your results here and discuss possible errors that may have occurred during the testing.*)

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