

Name: _____

Period _____

Chemistry Final Project 2014

Purpose: Heartburn, also known as indigestion, is a burning sensation in the chest. An estimated 20% of Americans suffer from regular heartburn. There are many products available to consumers that suffer from heartburn, including TUMS. *The purpose of this lab is to determine the effects of TUMS on stomach acid.*

Materials:

Claim: _____

Evidence (Data):

Number of Tums	Observations

Reasoning

Name: _____

Final Project Rubric

Component	Level		
	0	1	2
Materials Items required to complete the experiment	Did not list any materials or misnamed most of the materials required	Listed some of the required materials for experiment	Listed all required materials for experiment
Claim A statement or conclusion that answers the question asked or the problem posed.	Does not make a claim, or makes an inaccurate claim.	Makes an accurate but incomplete claim.	Makes an accurate and complete claim.
Component	Level		
	1	2	3
Evidence/Data Scientific data that supports the claim. The data needs to be appropriate and sufficient to support the claim.	Does not provide evidence, or only provides inappropriate evidence that does not support claim.	Provides appropriate, but insufficient evidence to support claim. May include some inappropriate evidence.	Provides <u>appropriate</u> and <u>sufficient</u> evidence to support claim.
Reasoning A justification that connects the evidence to the claim. It shows <i>why data counts as evidence</i> by using appropriate and sufficient scientific principles.	Does not provide reasoning, or only provides reasoning that does not link evidence to the claim.	Provides reasoning that links the claim and evidence. Repeats the evidence and/or includes some scientific principles, but not sufficient.	Provides reasoning that links evidence to claim. Includes <u>appropriate</u> and <u>sufficient</u> scientific principles.

Total Score: _____ /10