

## AP Statistics Group Project – Final Assessment

Team Names: \_\_\_\_\_

Due Date: 1/2B June 5<sup>th</sup> (You have 7 classes for this project, so manage your time)

# 2017 Gummy Bear Grading Rubric

**ALL DOCUMENTS MUST BE COMPUTER GENERATED**

	Who did this part (initials)?	Points
Project Worksheet	(20) _____	_____
<ul style="list-style-type: none"><li>This worksheet is a Preliminary Design for your Experiment. Your Group must complete this Worksheet in GoogleDoc's and have it <u>approved prior to launching</u>. See my website for instructions on the GoogleDoc.</li></ul>		
Catapult	(10) _____	_____
<ul style="list-style-type: none"><li>Your team must demonstrate your catapult and explain your procedure to Ms. Groves and have <u>approved prior to launching</u> (or you will have to relaunch).</li></ul>		
Cover	(10) _____	_____
<ul style="list-style-type: none"><li>Must be in color and include picture of your design/launch. Be creative.</li></ul>		
Raw data	(5) _____	_____
<ul style="list-style-type: none"><li>In a well-organized table including treatments, assigned random number for each experimental unit, response variable and <u>note any outliers</u>.</li></ul>		
Summary Statistics	(7) _____	_____
<ul style="list-style-type: none"><li>In a well-organized table including mean, standard deviation, n, 5-number summary, IQR, and note any outliers.</li></ul>		
Graphs	(8) _____	_____
<ul style="list-style-type: none"><li>Two for each treatment (box plot and histogram)</li></ul>		

### Written Report

Introduction	(10) _____	_____
<ul style="list-style-type: none"><li><u>Written in paragraph form</u> summarize (in English) your confidence interval and test of hypothesis.</li><li>Summary of experiment - identify experimental units, factors, treatments, key components of your experimental design, and identify all inference tests you do in your analysis.</li></ul>		
Inference Analysis	(20) _____	_____
<ul style="list-style-type: none"><li><u>Written in paragraph form</u> summarize (in English) your confidence interval and test of hypothesis.</li></ul>		
Interpretation of results	(14) _____	_____
<ul style="list-style-type: none"><li><u>Written in paragraph form</u> to summarize the results of your experiment to someone without a statistical background.</li></ul>		
Reflections on Experiment	(6) _____	_____
<ul style="list-style-type: none"><li><u>Written in paragraph form</u></li></ul>		

Project Grade: \_\_\_\_\_

Individual's grades	Partner 1:	Partner 2:	Partner 3:
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**Teacher Comments:**

[illegible]