

AP Statistics Group Project - Final Assessment

Team Names: _____

Due Date: Final Exam Day (You have 8 classes for this project, so manage your time)

2018 Gummy Bear Grading Rubric

ALL DOCUMENTS MUST BE COMPUTER GENERATED

AND SHARED WITH MS. GROVES IN 1 GOOGLE DOCUMENT THE "PROJECT WORKSHEET"

See **Appendix 1** of the "Project Worksheet" for more details on requirements for this project. The first step of this project is sharing this GoogleDoc with all team members and Ms. Groves. Make sure to give the "Project Worksheet" a unique name that identified your team.

	Who did this part (initials)?	Points
"Project Worksheet" (14)	_____	_____
<ul style="list-style-type: none"> • This worksheet is a template designed to include your entire project. Your Group must complete pages 1 and 2 and Appendix 2 "Controls," and <u>it must be approved by Ms. Groves prior to launching</u> your Gummy Bears. Ms. Groves will share it with 1 team member. • The "<u>Project Worksheet</u>" is also set up to include your written report: <ul style="list-style-type: none"> a) Introduction (10) _____ <ul style="list-style-type: none"> ○ Written in paragraph form summarize (in English) your confidence interval and test of hypothesis. ○ Summary of experiment - identify experimental units, factors, treatments, key components of your experimental design, and identify all inference tests you do in your analysis. b) Summary of treatment data (14) _____ <ul style="list-style-type: none"> ○ Written in paragraph form to summarize the results of your experiment to someone without a statistical background. c) Inference Analysis (16) _____ <ul style="list-style-type: none"> ○ Written in paragraph form summarize (in English) your confidence interval and test of hypothesis. d) Reflections on Experiment (6) _____ <ul style="list-style-type: none"> a. Written in paragraph form 		
Pre-Planning/Controls (Appendix 2) (10)	_____	_____
<ul style="list-style-type: none"> • In Appendix A, clearly outline all your controls in the pre-planning part of your project. This is critical for a well-designed experiment to address all extraneous factors to ensure reliable results 		
Raw data (Appendix 3) (5)	_____	_____
<ul style="list-style-type: none"> • In a well-organized table including treatments, assigned random number for each experimental unit, response variable and note any outliers. 		
Summary Statistics (Appendix 4) (7)	_____	_____
<ul style="list-style-type: none"> • In a well-organized table including mean, standard deviation, n, 5-number summary, IQR, and note any outliers. 		
Graphs (Appendix 5) (8)	_____	_____
<ul style="list-style-type: none"> • Two graphs <u>for each</u> treatment (box plot and histogram) 		
Catapult (10)	_____	_____
<ul style="list-style-type: none"> • 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). 		
Cover (10)	_____	_____
<ul style="list-style-type: none"> • Must be in color and include picture of your design/launch. Be creative. 		

Project Grade: _____

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