Research Paper FINAL DRAFT (100 points)
Due at the start of Lab (week X)

*REJECT and HAND BACK IMMEDIATELY if…
__ The individual authorship of sections is unclear.
__ “Group responsibility” signature page is not completed
__ Submitted manuscript format doesn’t not follow “Instructions to Authors”

CONTENT:

Title: (WORTH 6 POINTS)
__ Paper gets up to 4 pts for having a title that says something about methods and their specimen.
__ Paper gets up to 2 points if their title predicts anything about their findings.

Abstract: (WORTH 8 POINTS)
__ Paper gets up to 6 points for having an abstract that predicts what they “did” and “found.”
__ Paper gets up to 2 points if their abstract sounds like scientists wrote it (not obvious that its by students).

Introduction: (WORTH 15 POINTS)
__ Paper gets 3 points for having an introduction that tells you some background (several paragraphs) about what they plan to do and (one paragraph) what they expect/predict to see.
__ Paper gets up to 4 points (2 bonus are possible) if their Introduction sounds like scientists wrote it (not obvious that its by students) and makes you interested and want to read on.

__ Paper gets 1 point for each of these in the Introduction:
__ 1. has an appropriate and interesting TOPIC for the circumstances;
__ 2. has a clear, and preferably original, specific POINT (also known as a THESIS);
__ 3. provides adequate SUPPORT (REASONING and EVIDENCE) for that point;
__ 4. is well ORGANIZED so that the audience can follow the points and examples;
__ 5. employs CLEAR, PRECISE LANGUAGE;
__ 6. is factually ACCURATE and also FAIR, including recognizing reasonable objections;
__ 7. is presented in a way that is ENGAGING to the audience;
__ 8. is of a REASONABLE SIZE for the circumstances (not too short or too long);
__ 9. clearly CREDITS OTHERS when their ideas and words are used.
__ 10. Indicates original PREDICTIONS and some hint of findings

Methods: (WORTH 10 POINTS)
__ Paper gets up to 10 points for having a methods section that tells what they did and allows a student in LBS-144 to easily replicate their experiments (in past tense as if it already happened).

Results: (WORTH 5 POINTS)
__ Paper gets up to 5 points if Results section discusses expected/predicted data that was collected in a very professional fashion. Read the Results section and look at each Figure or Table to be sure it is cited properly. Does it make sense. Do you now know what they tested and what they found?

Figures/Tables: (WORTH 10 POINTS)
__ Paper gets up to 10 points if Figures and Tables are very professional and really DO document their evidence. If they have NO photographs of test tubes from sugar tests subtract 5 points (no evidence).
__ Paper gets up to 2 BONUS points if Figures completely ROCK!
Discussion: (WORTH 31 POINTS)

__ Paper gets up to 5 points if they develop an excellent hypothesis that they evaluate.
__ Paper gets up to 6 points (2 points for sugar topics, 2 points for PHS, 2 points for enzymes) if they present again a brief summary of their intro, methods and results and then proceed to interpret these (what's it mean?)

Also 2 points for each of these.

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__ 6. is factually ACCURATE and also FAIR, including recognizing reasonable objections;
__ 7. is presented in a way that is ENGAGING to the audience;
__ 8. is of a REASONABLE SIZE for the circumstances (not too short or too long);
__ 9. clearly CREDITS OTHERS when their ideas and words are used.
__ 10. Indicates original PREDICTIONS and ultimate findings

HOW GOOD (QUALITY & QUANTITY) WAS THE RESEARCH: (WORTH 10 POINTS)

Did very few trials/experiments 0 1 2 3 4 5 6 7 8 9 10 Did many complex trials exps

“The quantity and quality of their research and experiments: If they made a sincere effort and did many trials and controls and were rigorous in their research design and execution they will be generously rewarded. If on the other hand, their group did very few experiments, trials, controls and in general it's clear their effort was minimal, their score will be minimal.”

View their graphs and check if they have multiple trials indicated and include statistics with data.

DO THEY HAVE A WEBPAGE? YES / NO (WORTH 5 POINTS)

*WEBPAGE: In addition, we request you create a single-page website that contains some information from your final paper for publication on the web. The info requested is: Title, Authors, Abstract, 1 Figure or Table (the best one that shows the most important finding), and your full Discussion section. Name the html page for your group ie. "spayskraft.html" and list the URL for us to view it on the coverpage of your paper. This webpage will be placed in a public website to "publish" your results. Students in the future (as you did) will read about your work and be in awe (as well as cite and extend your published research). Show them the cool stuff you did.