Scientific Poster Presentation
Requirements and Rubric

A great scientist is able to communicate the results of their investigations clearly and concisely. You will carefully design one slide that summarizes your entire lab investigation. You will have 60 seconds to present your slide and share your entire investigation with the class. The presentation needs to be brief, yet contain enough detail so students can understand the nature of your laboratory investigation and what you learned.

Your Task

Design a slide summarizing your laboratory investigation. Use Google Slides, and submit to your teacher by the due date. Be sure your slide has a:

a. **Descriptive Title** (The Effect of *the independent variable* on *the dependent variable"*; clearly indicates the research question)
b. **Claim** (What is the answer to your research question? Do not use pronouns! Only ONE sentence!)
c. **Results/Evidence**
    i. Data table (*sufficient* and *appropriate* statistically analyzed data, no raw data!)
    ii. Graph (*appropriately* selected chart)
    iii. Picture from the lab (this is your qualitative data)
d. **Reasoning** (brief statement suggesting how and why the evidence supports your claim; This includes your scientific principle or idea; this is where your parenthetical citation should be) DO NOT use direct quotes!!
e. **Parenthetical Citation(s)**
    i. APA format: (Last name of Author, date it was written)
    ii. Must have full citation in speaker notes at the bottom of the slide in speaker notes
f. **Contributions**
    i. In the speaker notes section, list the people in your group and their contributions to the slide
g. **Limitations and Future Direction**
    i. In the speaker notes, add the limitations and future directions limitations: what aspects of your experiment were limited? How was it not a real world scenario?
    ii. Future Direction: Now that you have the results of your experiment, what do you do with them? How will this information help you? What can we now do with this information? Do you need to do the experiment again in a different way? If yes, how so?

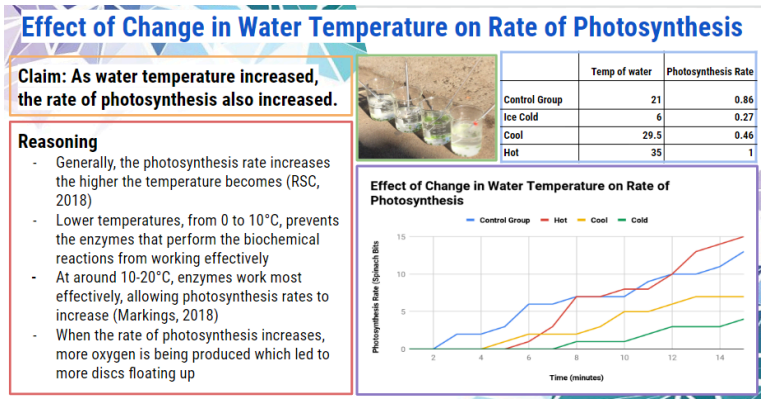
** Keep in mind that everything does not need to be written out. You will be explaining the process, data, and conclusion. This slide is meant to be visual and engaging and EASY TO FOLLOW. DO NOT INCLUDE A LOT OF TEXT.

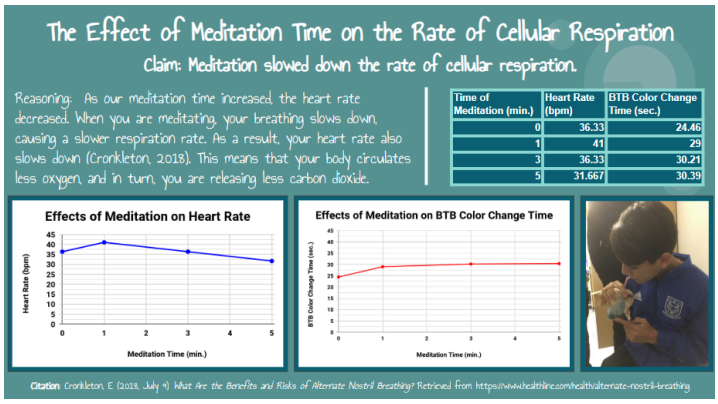
2. **Present your slide** to the class. You will have no more than **60 seconds** to accomplish this task. Rehearsal and efficiency is key! Try to make eye contact with your audience (do not read from your slide) and present in a *professional*, audible and well-paced manner.

Oral presentation should explicitly address:

a. **Research Question**
b. **Evidence Explained** (most important-relevant data; null and alternative hypotheses when applicable)
c. **Reasoning Explained** (support claim with evidence)
d. **Claim** (What does the data suggest?)
e. **Limitations/Errors and Future Direction** (i.e. what you would do differently, questions generated, relevance/significance)

Examples:





Scientific Poster
Slide Presentation Rubric

Score	Scientific Content	Evidence	Slide Content	Presentation Skills	Limitations and Future direction
4	The **reasoning** for the described phenomenon is *scientifically valid* and clearly supports the **claim** with *sufficient* and *appropriately analyzed* **data** from the investigation.	Provides appropriate and sufficient evidence to support the claim. *Appropriate* **data tables** AND **graphs** are easy-to-read and *properly labeled*.	**Information** in the slide is *well-written* and *thoughtfully* presented in a clear, concise (limited text), organized, and *engaging* manner. **Citation(s)** are in correct bibliographic form.	The information was *skillfully* **presented** (clearly and concisely) with *poise and grace* (e.g.did not rely on slide content) in a *professional*, audible and well-paced manner (*did not exceed* the **60 second time limit**).	**Limitations and Future direction** explained and makes sense. Group went into detail of each (at least one limitation and one future direction)
3	The **claim** is clearly stated while the **reasoning** for the phenomenon is *scientifically reasonable*; and only *some* appropriately analyzed **data** from the investigation is used to support the claim.	Provides appropriate, but insufficient evidence to support the claim. May include some inappropriate evidence. *Suitable* **data table** and/or **graph** are *reasonably* clear but contain *minor errors* (e.g. untitled, mislabeled, units missing).	**Information** in the slide is presented in a clear and organized manner, but could be more engaging (possibly an abundance of text). **Citation(s)** may be in *improper* bibliographic form.	The information was *competently* **presented** (e.g. rehearsed and did not simply read from the slide) in a *proficiently* audible and well-paced manner (*may have exceeded* the **60 second time limit**).	**Limitations and Future direction** explained but might be wrong/doesn't make sense. (at least one limitation and one future direction)
2	The **claim** is *unclear* and the **reasoning** for the phenomenon is *scientifically questionable*; and *insufficient accurate* **data** from the investigation is used to support the claim.	Evidence does not support the claim; only provides inappropriate evidence. **Data table** and/or **graph** are unclear/missing and contain multiple errors (e.g. untitled, mislabeled, units missing).	**Information** in the slide needs *some* edits and could be written in a clearer manner as well as an abundance of text. **Citation(s)** are in *improper* bibliographic form or missing.	The information was *satisfactorily* **presented** (e.g. moments of confusion and reading from the slide) in a *somewhat* inaudible and disjointed manner (*may have exceeded*, or was *significantly under*, the **60 second time limit**).	At least one **limitation or Future direction** was not stated. The one mentioned makes sense.
1	The **claim** and **reasoning** for the phenomenon are missing and/or scientifically flawed; in addition, *insufficient* and/or *inaccurate* **data** from the investigation is used to support the claim.	**Data table** and/or **graph** are missing.	**Information** in the slide needs *significant edits* and is presented in a *disorganized* and *confusing* manner. **Citation(s)** are missing.	The information was *incoherently* **presented** (e.g. confusing, poor eye contact, and read from the slide) in an *oftentimes* inaudible and disjointed manner (*may have exceeded*, or was *significantly under*, the **60 second time limit**).	At least one **limitation or Future direction** was not stated. The one mentioned does not make sense

Names: _____

_____

Title of Presentation: _____

RAW SCORE _____ **CONVERTED SCORE** _____**/100** **PERIOD** _____

CONVERSION SCALE:

RAW SCORE	CONVERTED SCORE (100)
20	100
19	97
18	94
17	91
16	88
15	85
14	82
13	79
12	76
11	73
10	70
9	67
8	67
7	61
6	58
5	55