**ADI Report Guidelines**

**Report:** Once you have completed your research, you will need to prepare an ***investigation report*** that consists of three sections. Each section should provide an answer for the following questions:

1. What were you trying to do and why?
   1. Provide some background information on your topic.
   2. What was the goal of your investigation.
   3. What was the guiding question of your investigation?
2. What did you do during your investigation and why did you conduct your investigation in this way?
   1. How did you collect your data?
   2. How did you analyze your data?
   3. Use the proper scientific terms for your investigation.
3. What is your argument?
   1. Answer the guiding question.
   2. Support claim with evidence.
   3. Present evidence properly (properly labeled graph/table, metric units, reference graph in text)
   4. Why is the evidence important?
   5. Were scientific terms used correctly?

Your report should answer these questions in 2 pages or less. This report must be typed and any diagrams, figures, or tables should be embedded into the document. Be sure to write in a persuasive style; you are trying to convince others that your claim is acceptable or valid!

**A Scientific Argument**

Explains…

Supported by…

Supports…

Fits with…

The generation and evaluation of arguments reflect discipline-based norms that include…

Important models, theories, and laws in the discipline

Accepted methods for inquiry within the discipline

Standards of evidence within the discipline

The ways scientists within the discipline share ideas

Empirical Criteria

The claim fits with the available evidence

The amount of evidence is sufficient

The evidence used is relevant

The method used to collect the data was appropriate

Theoretical Criteria

The claim is sufficient

The is useful in some way

The claim is consistent with accepted theories or laws

Analytical Criteria

The method used to analyze data was appropriate

The interpretation of the data is sound

A Justification of the Evidence

A statement that explains the importance *and* the relevance of the evidence by linking it to a specific concept, principle, or underlying assumption

The quality of an argument is evaluated by using…

The Evidence

Data (measurements and observations) or findings from other studies that have been collected, analyzed, and then interpreted by the researchers

The Claim

A conjecture, conclusion, explanation, generalizable principle or some other answer to a research question