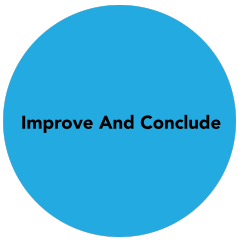

Step Five: Improve & Conclude

After your testing and evaluating, make the final improvements or the final prototype if necessary. When you are done testing and improving, you will need to create a conclusion.

Creating a Conclusion

Your conclusion summarizes how well your prototype solves the problem. A strong conclusion should have the following items in it:

- Explain if your design meets your Engineering Goal. Why or why not?
- Summarize the results of the data. Include your thoughts regarding the following items:
    - Did the data show what you expected?
    - Do you think your data is accurate and reliable?
    - How does the final design make a difference in the results?
- Have a concluding sentence that summarizes if your Engineering Goal is met based on the criteria and constraints.
- Include your next steps in developing the prototype.

In your logbook, write a rough draft of your Conclusion. Remember to include the date in your entry. Below is an example conclusion:

Date	**Conclusion**	*The prototype I designed was a lunch box that would remind students to take it home. As I started designing, I realized that a clip-on device instead of the whole lunch box would be better. Many students spend a lot of time picking out their favorite lunch box. By creating the clip-on device, they get to keep their favorite lunchbox and remember to take it home.... (explain the process that was done. Include trials and changes made along the way)* *In conclusion, the clip-on device was successful. It sent a signal at a specific time. It met the criteria of being easy to install, easy to operate, and was inexpensive. My next steps would be to...*