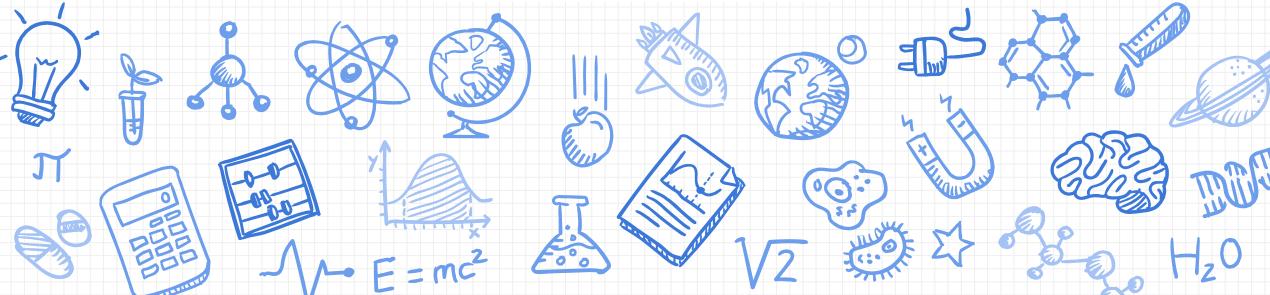
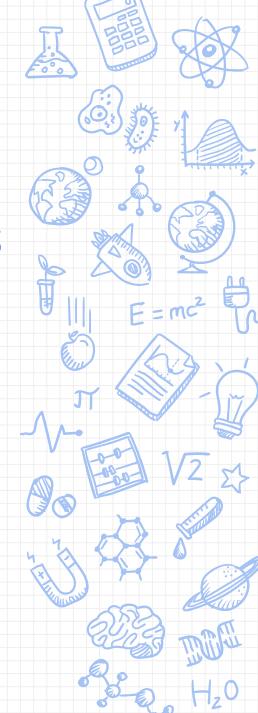
### Session 1: Engineering World's Best Glider Using IDEAS Engineering Journal





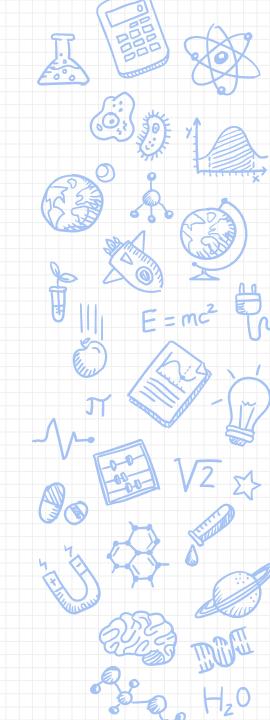
What do we know about engineers?

- What is an engineer?
- What are some of the different kinds of engineers?
- How do engineers make the world a better place?



### What, Why, How

Experience using the IDEAS Engineering Journal to see how it helps guide you through the improvement of existing designs by engineering the world's best glider.



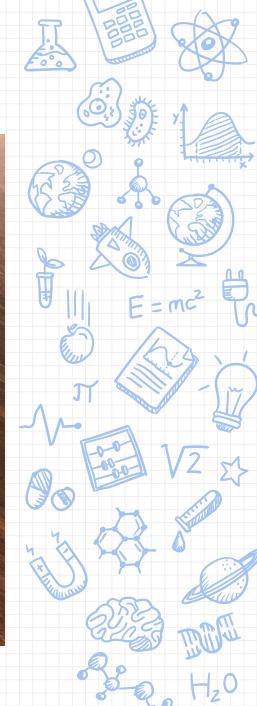


#### IDEAS Engineering Glider

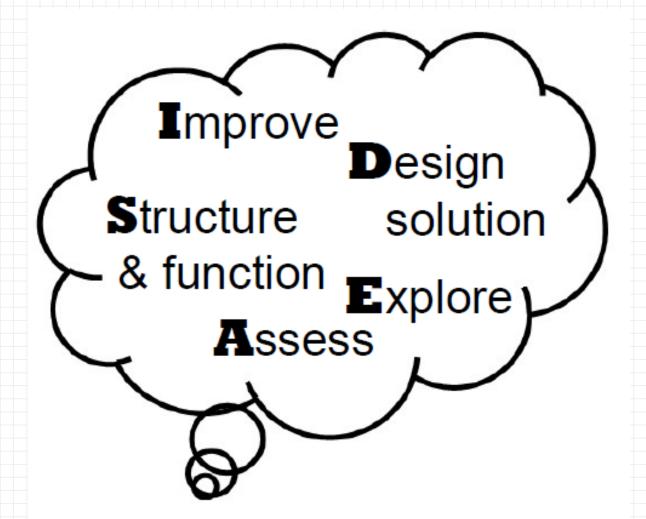
#### Materials:

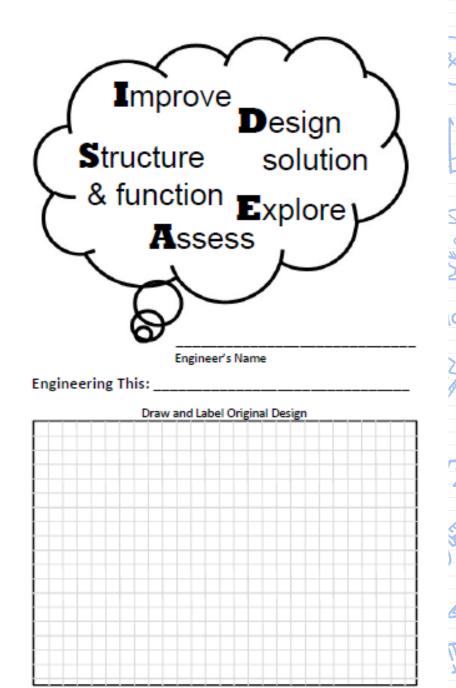
- index cards
- straws
- tape
- scissors
- Pencil
- IDEAS Engineering
   Journal





#### **IDEAS** Engineering Journal

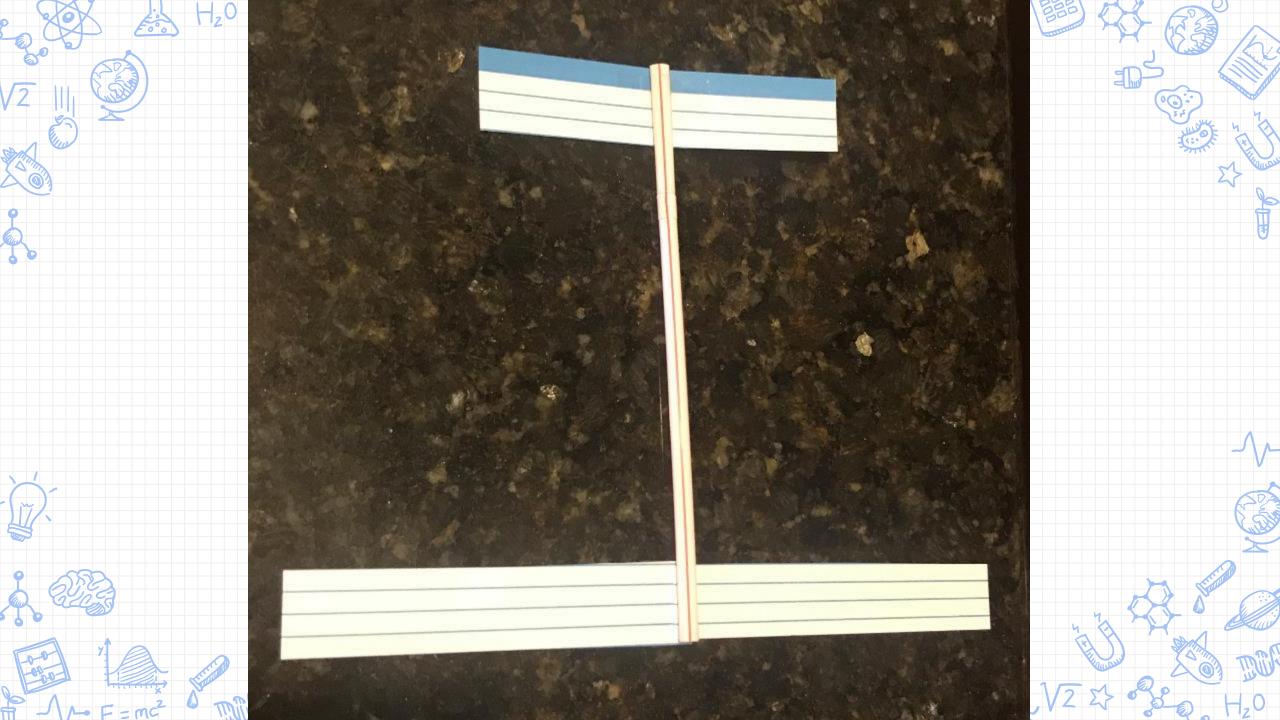


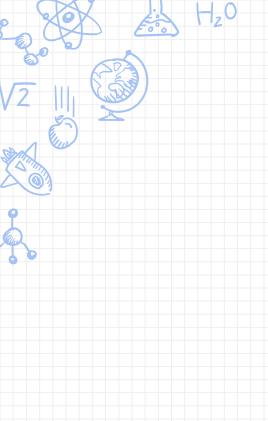


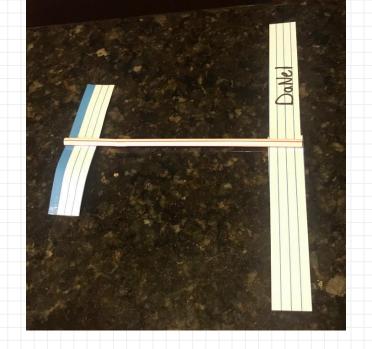






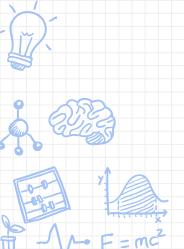






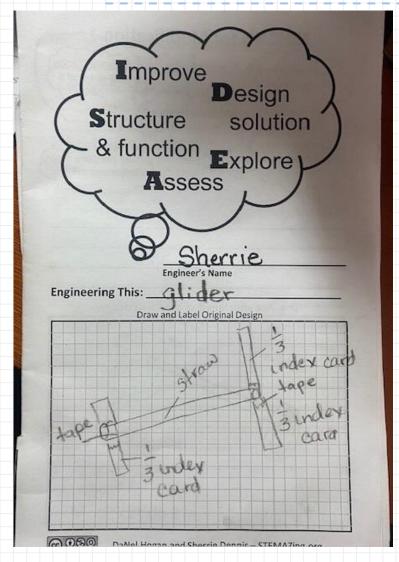
Prepare to be impressed.

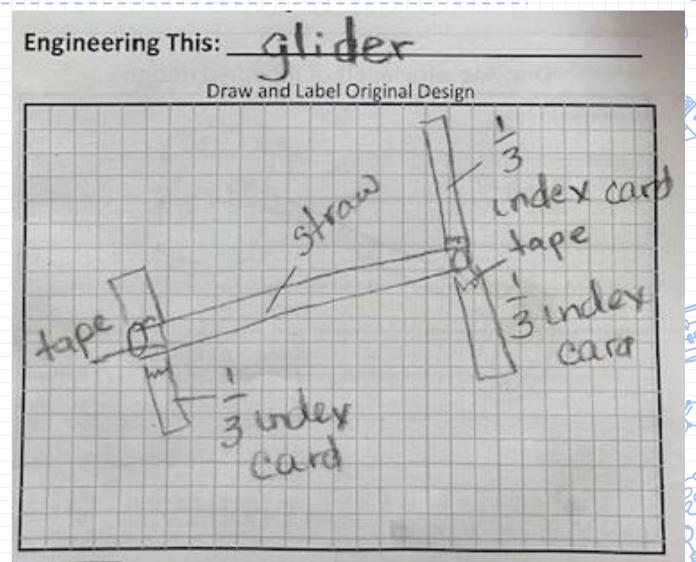






#### Original Design - Labeled Drawing



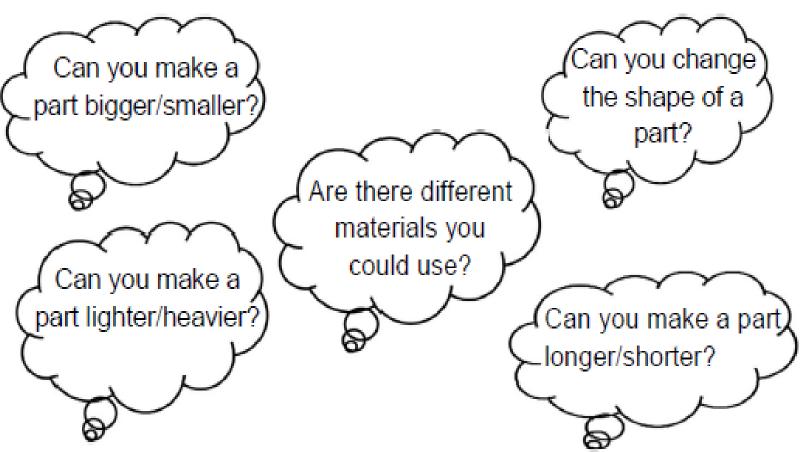


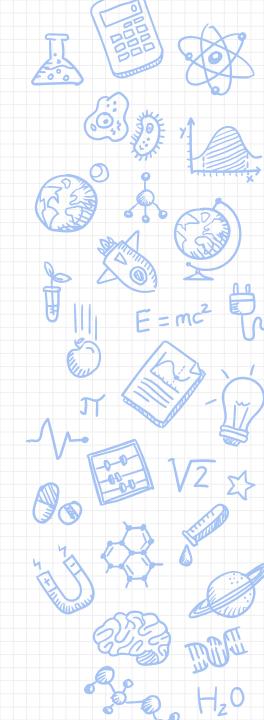
# Test it! Record observations in journals. Share observations.

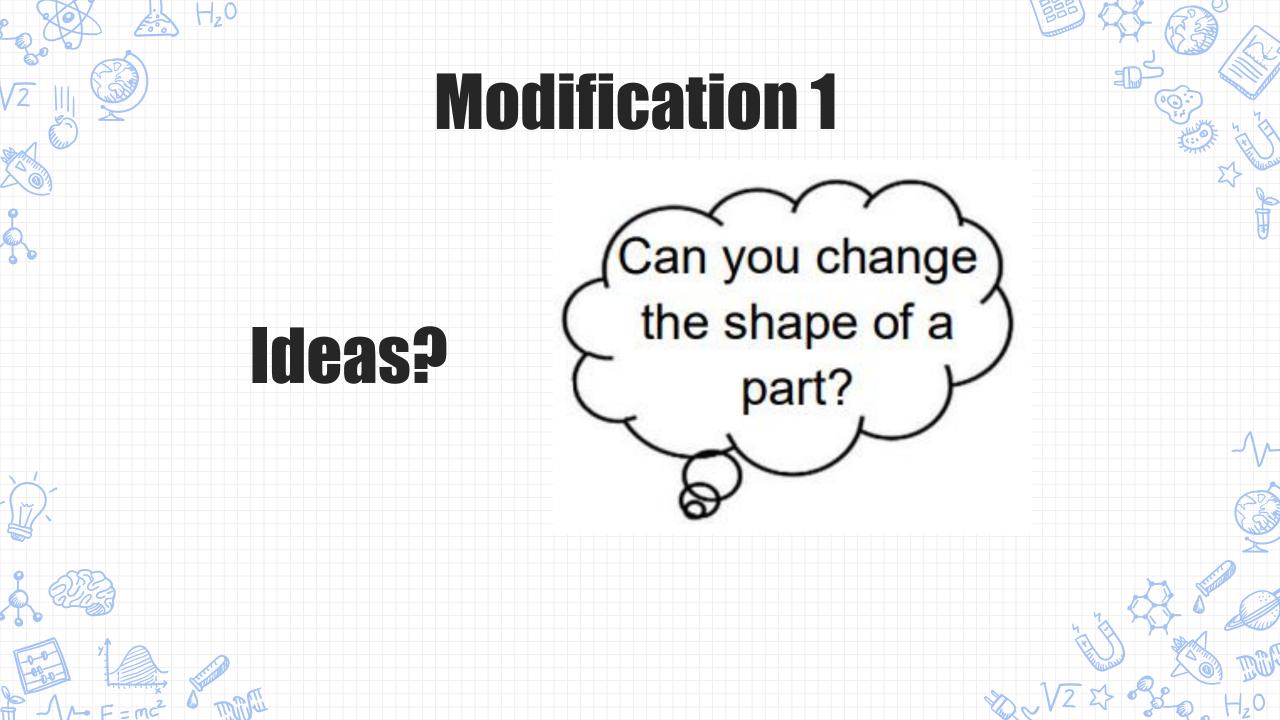


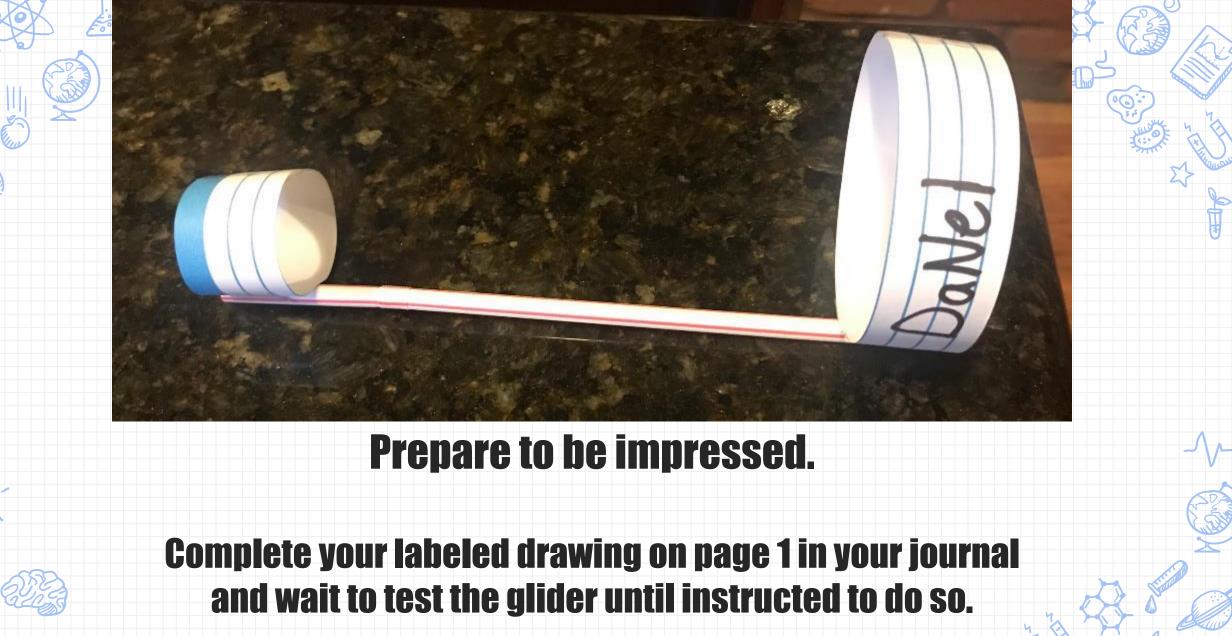
#### Modification 1

#### **IDEAS** for Modification 1



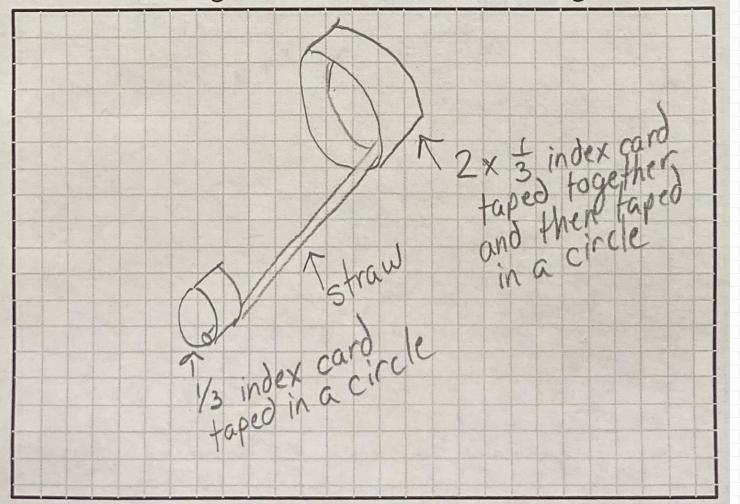


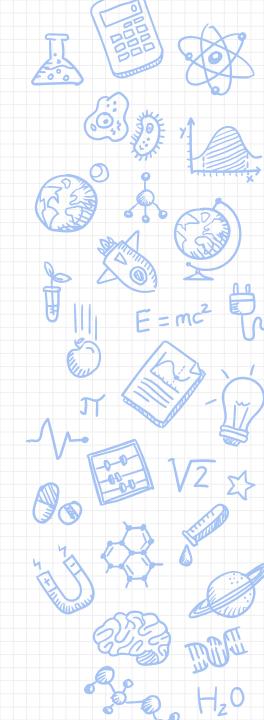




#### Modification 1 - Labeled Diagram - Shape Change

Drawing with labels of modified design





# Test it! Record observations in journals. Share observations.



### Engineer it!

Continue making modifications to your glider and working through the IDEAS Engineering Journal.

Be prepared to share your final designs at next session!



## Why engineer?

## Where engineering might lead you?





## Continue engineering your world's best glider. How far will it go?



