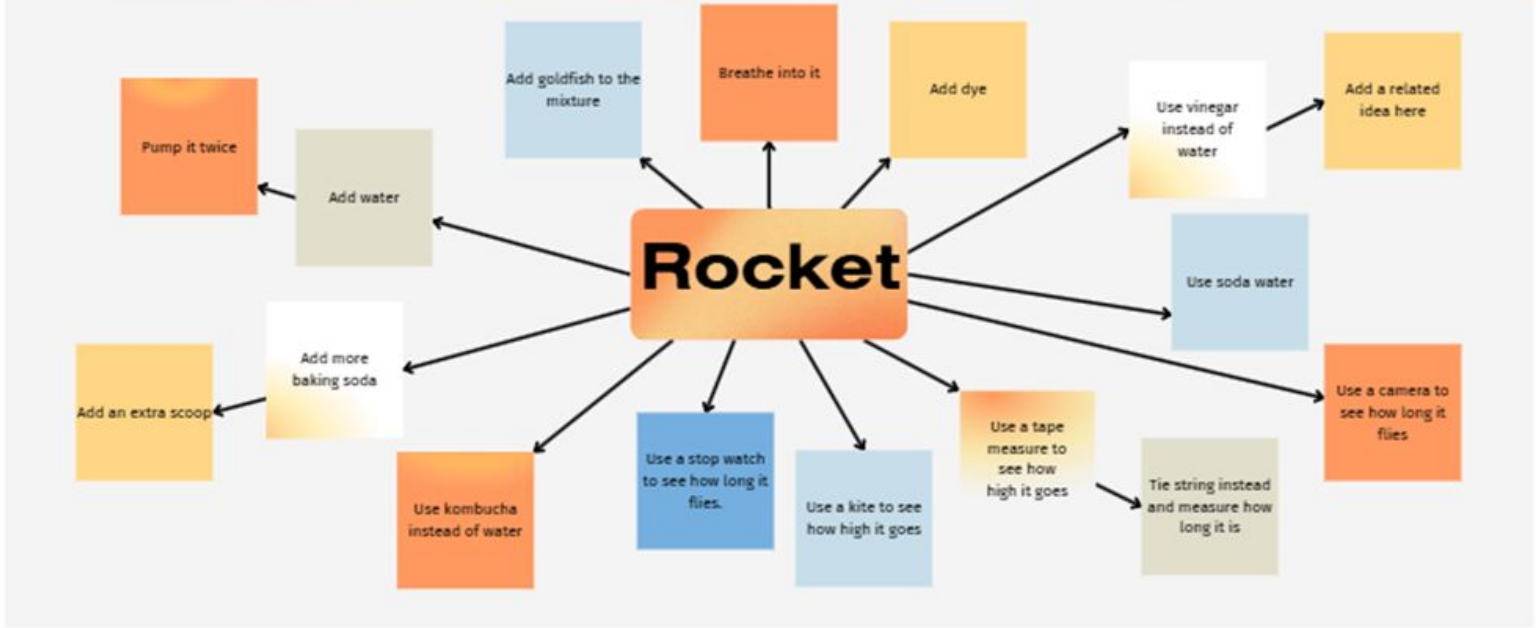
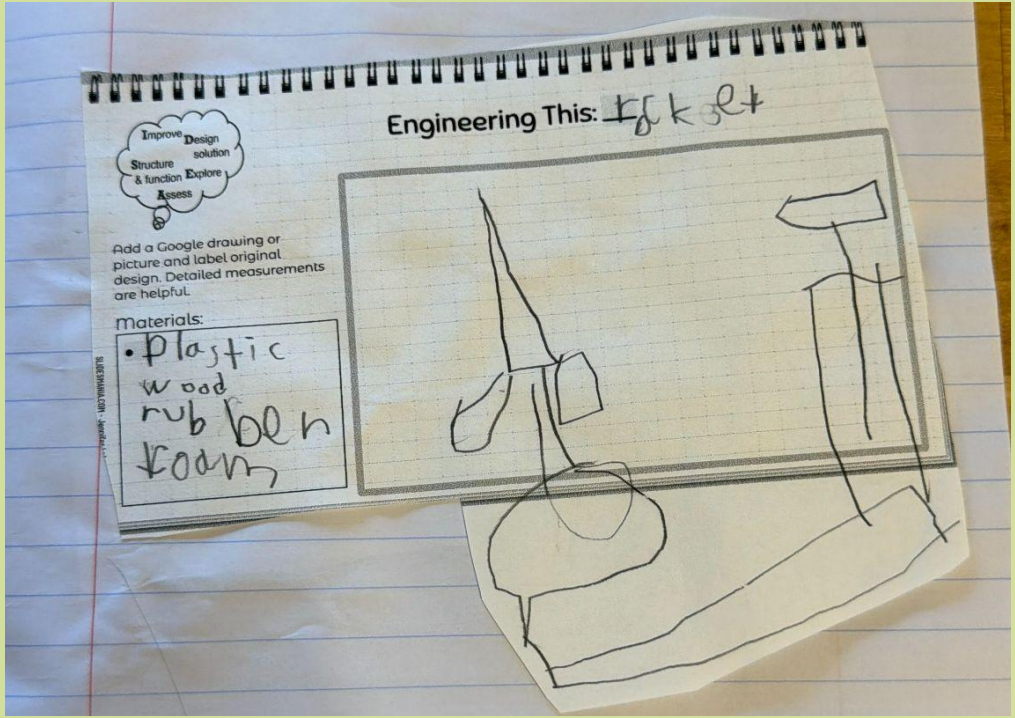
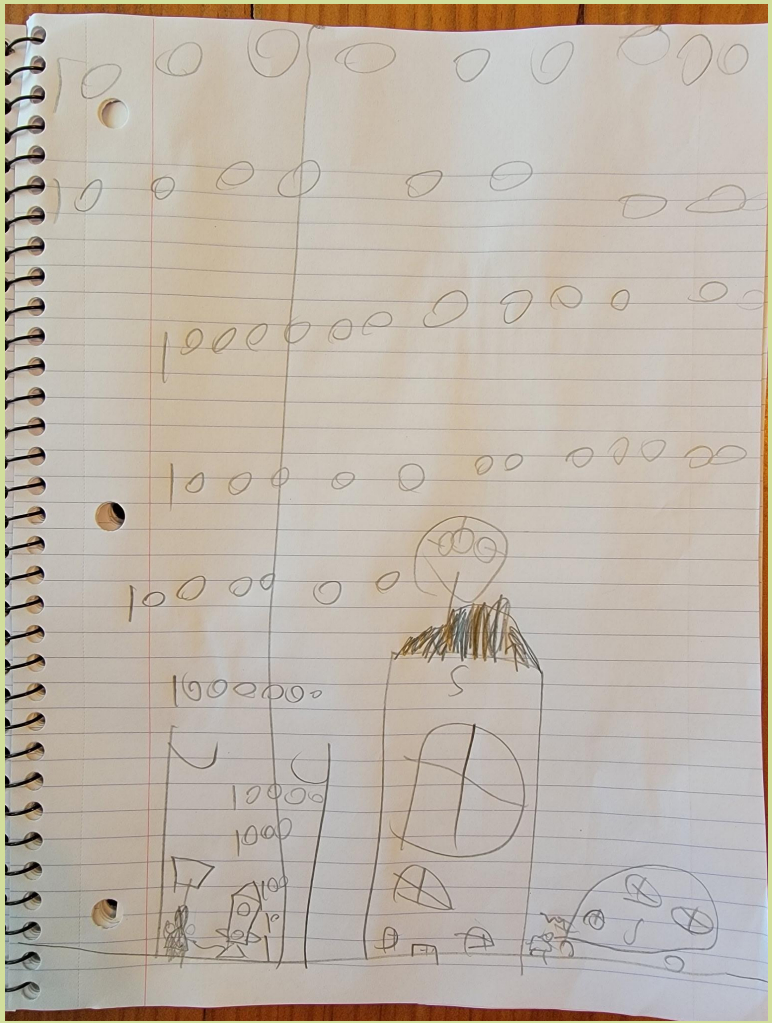
NOTEBOOK PAGES

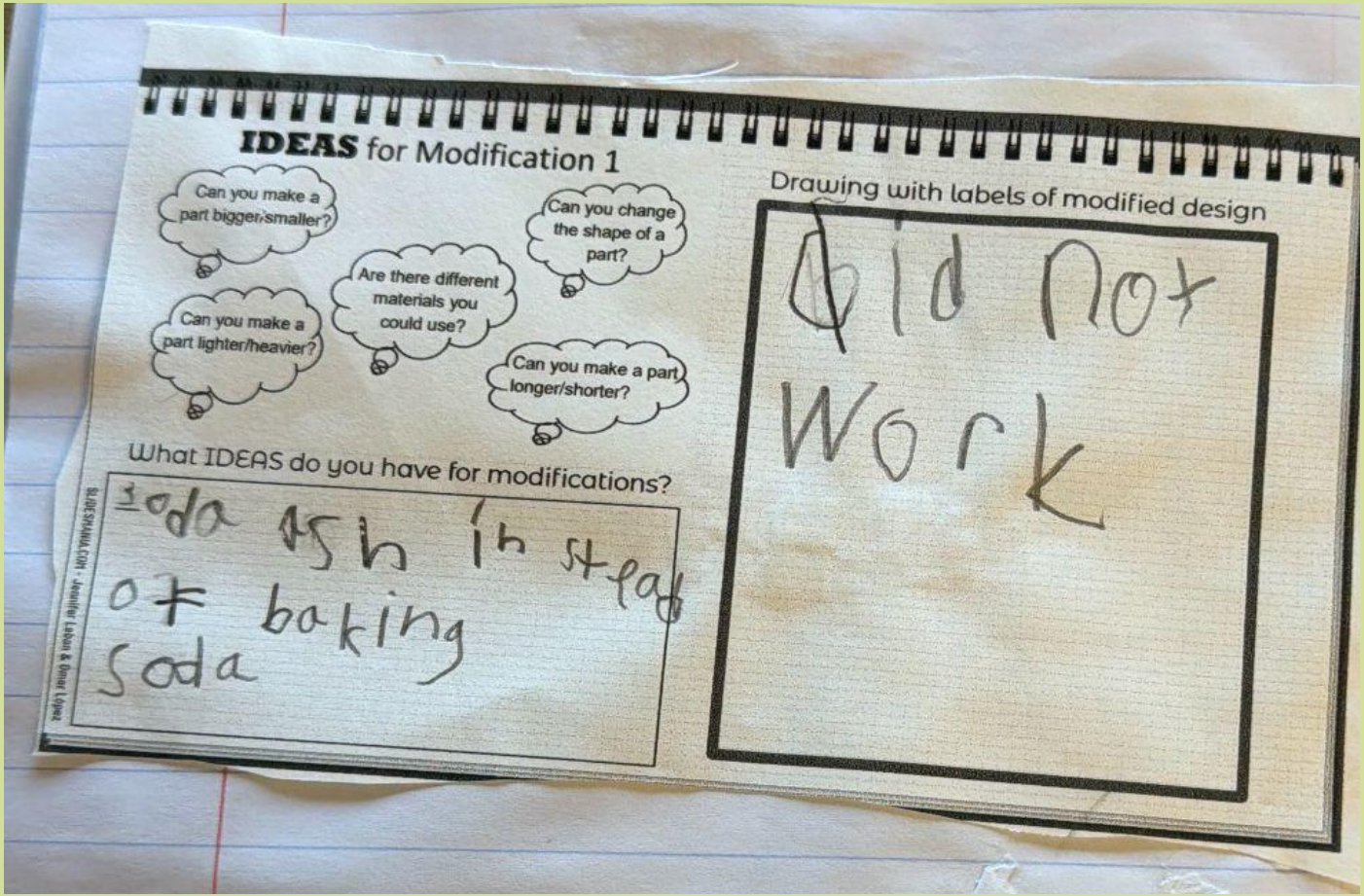
Mind Map

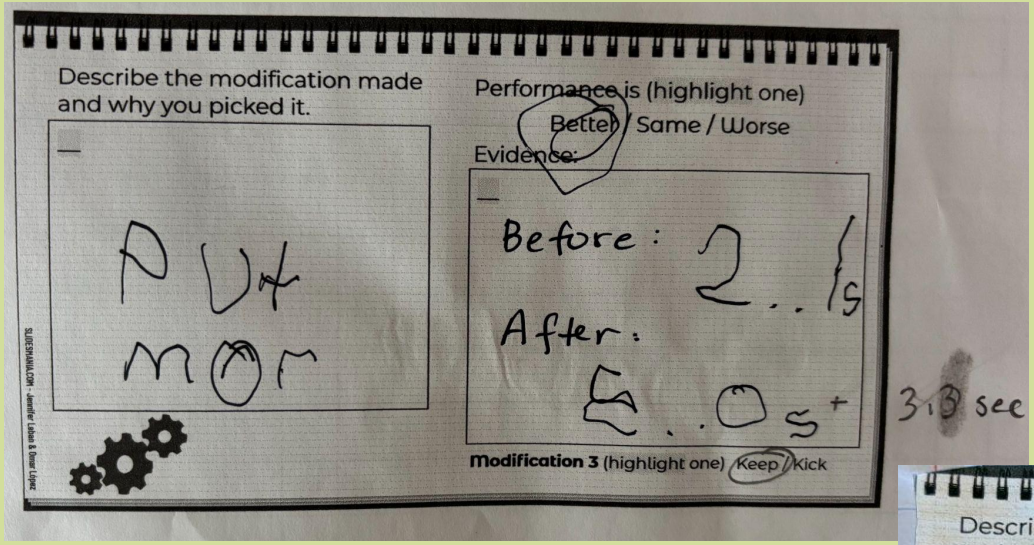
How to make the rocket fly higher

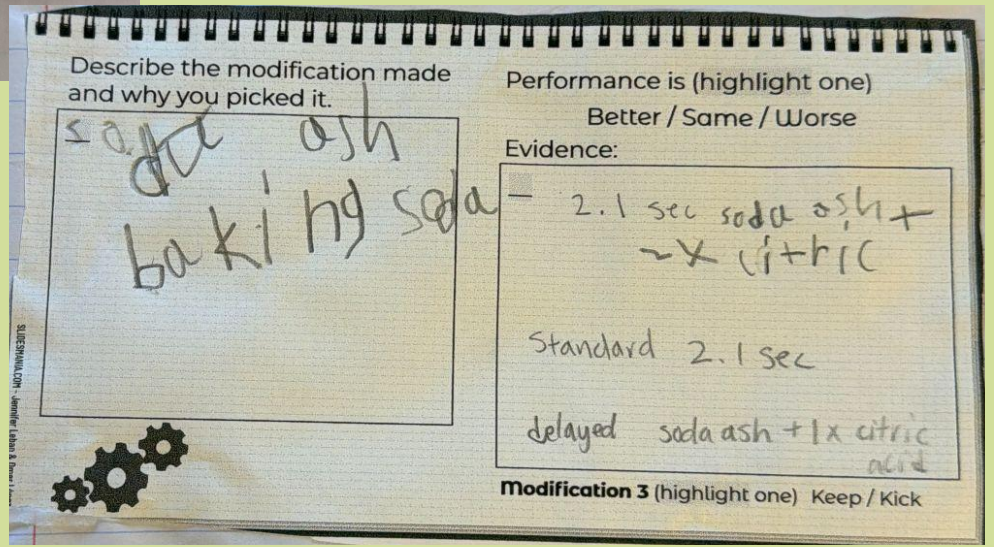


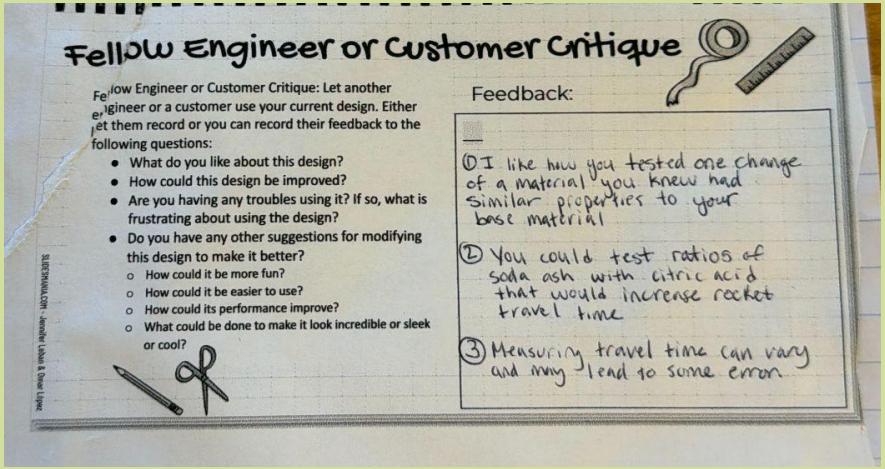

Improve Design solution
Structure & function Explore
Assess
Engineering This:
Add a Google drawing or picture and label original design. Detailed measurements are helpful.
Materials:
• Plastic
wood
rubber
foam

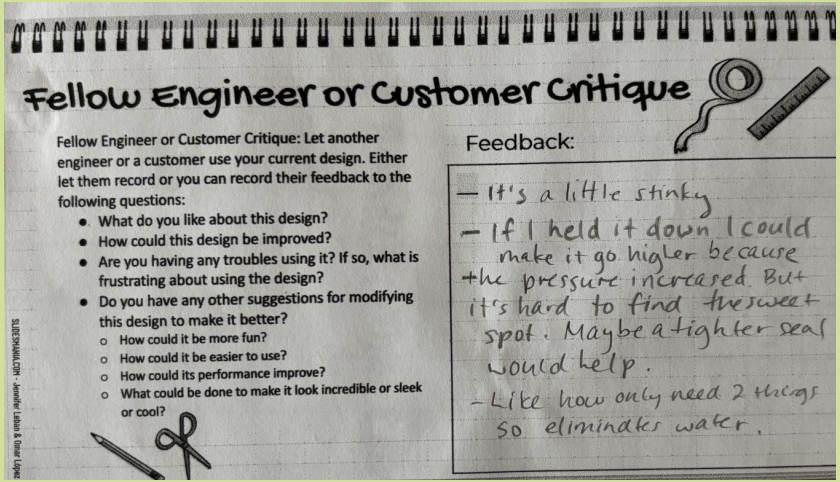



IDEAS for Modification 1
Can you make a part bigger/smaller?
Can you change the shape of a part?
Are there different materials you could use?
Can you make a part lighter/heavier?
Can you make a part longer/shorter?
What IDEAS do you have for modifications?
1oda 45h in stead of baking soda
Drawing with labels of modified design
did not work
BLAIRSPHANA.COM - Jennifer Lebon & Omar Lopez


Describe the modification made and why you picked it.
Put more
Performance is (highlight one)
Better / Same / Worse
Evidence:
Before: 2..1s
After: 5..0s+
3.3 sec
Modification 3 (highlight one) Keep / Kick


Describe the modification made and why you picked it.
soda ash baking soda
Performance is (highlight one)
Better / Same / Worse
Evidence:
2.1 sec soda ash + ~x citric
Standard 2.1 sec
delayed soda ash + 1x citric acid
Modification 3 (highlight one) Keep / Kick


Fellow Engineer or Customer Critique
Fellow Engineer or Customer Critique: Let another engineer or a customer use your current design. Either let them record or you can record their feedback to the following questions:
What do you like about this design?
How could this design be improved?
Are you having any troubles using it? If so, what is frustrating about using the design?
Do you have any other suggestions for modifying this design to make it better?
How could it be more fun?
How could it be easier to use?
How could its performance improve?
What could be done to make it look incredible or sleek or cool?
Feedback:
① I like how you tested one change of a material you knew had similar properties to your base material
② You could test ratios of soda ash with citric acid that would increase rocket travel time
③ Measuring travel time can vary and may lead to some error.
SLIDESMANIA.COM - Jennifer Labun & Omar Lopez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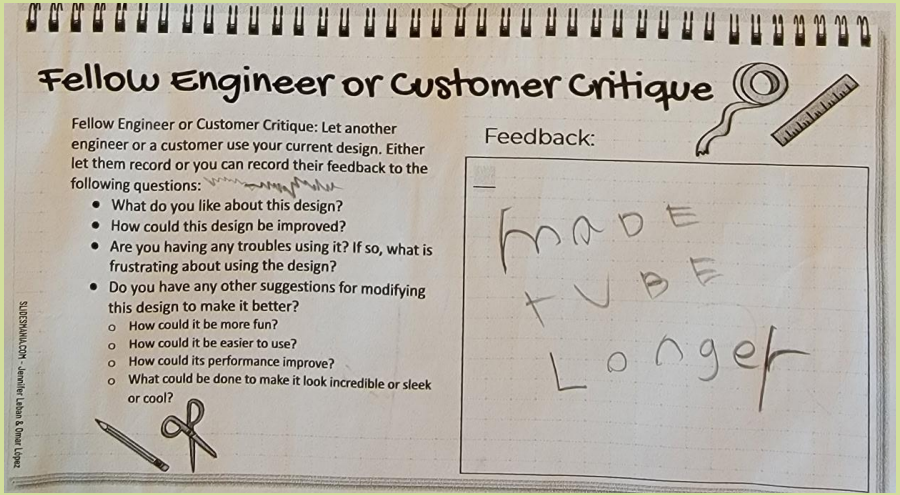
Feedback:
– It's a little stinky
– If I held it down I could make it go higher because the pressure increased. But it's hard to find the sweet spot. Maybe a tighter seal would help.
– Like how only need 2 things so eliminates water.
SLIDESMANIA.COM - Jennifer Labun & Omar Lopez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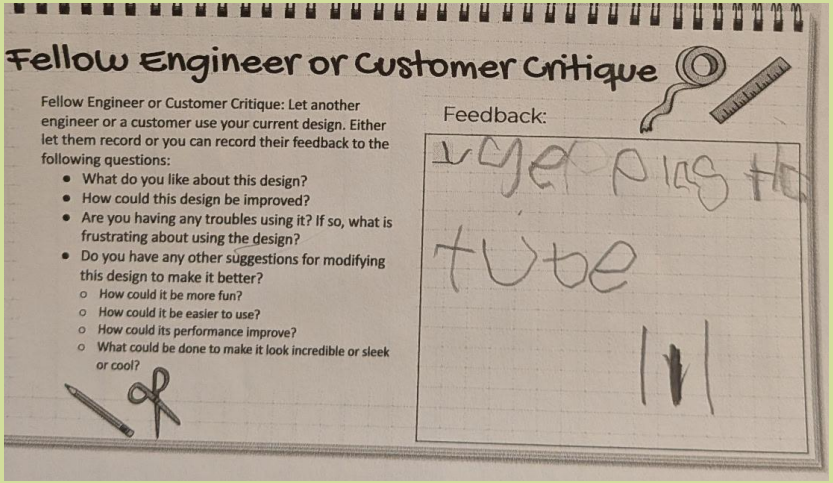
Feedback:
MADE TUBE LONGER
SLIDESMANIA.COM - Jennifer Labun & Omar Lopez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Feedback:
tube