

Name: _____ STEM Challenge

Ask

Imagine

Plan

○	
○	
○	

Create

Improve

Design: You have 30 minutes to build, test and modify your catapult.

Keep in mind:

- What is your design goal?
- How much force will your design require for a successful launch?
- What angle launches the object the furthest?
- Which projectile launches the furthest?
- Have you tested a different way?
- What improvements can you make?
- You may test every projectile, but you may only use one in the final launch.
- NEVER aim your projectile toward a person.

Test Data:

Test Number	Projectile used	Change you made and why.	Distance in inches
1.			
2			
3			
4			
5			
6			
7			
8.			



Examples of Newtonian fluids

All gases and most liquids which have simpler molecular formula and low molecular weight such as

- Water
- Benzene
- ethyl alcohol
- CCl_4
- Hexane

and most solutions of simple molecules are Newtonian fluids

STEM Education

<p>How can we solve the problem? The BEST solution is _____</p> <p>_____</p> <p>_____</p> <p>because _____</p> <p>_____</p> <p>_____</p>	<p>Idea Bank</p>
<p>What worked?</p>	<p>What didn't work?</p>
<p> My STEM Journal </p>	