

Name:

Date:

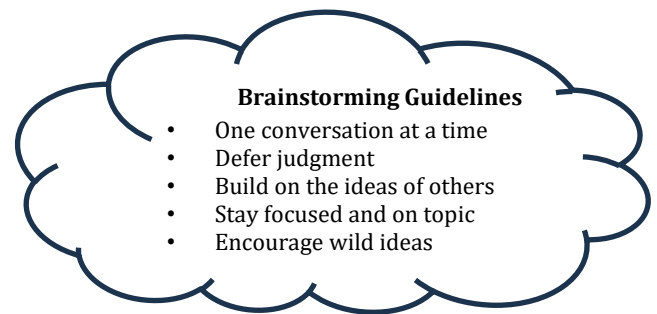
Class:

Step 2: Research

List at least three sources and a brief description of what ideas/information you gathered from each source:

Step 3: Imagine

Brainstorm ideas for your design with your group. Each member should contribute at least one idea. Each idea should be listed below with a short pro/con list.



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Step 4: Plan

Select one idea from your brainstorming step to become your group's design. Use the space below to sketch the design. Include measurements, notes about assembly, materials, how parts will attach, and any other vital details in your design.



Make a list of materials you will need below. Make a plan for acquiring the materials.

Name:

Date:

Class:

Step 7: Improve

Make any improvements you deem necessary to maximize the distance of the projectile. You can continue to test and improve as you go until it is time for the final competition.

Final Competition

At this time, all modifications must be complete. Each team will have three opportunities to launch the projectile. Track the distances in the table below:

Group	A	B	C	D	E
Trial 1 distance (m)					
Trial 2 distance (m)					
Trial 3 distance (m)					
Best (m)					

Final Question: For the winning group, use the distance measured, the standard height, and the kinematic equations to determine the initial velocity of the projectile.