



SCIENCE OLYMPIAD
— AT THE —
UNIVERSITY OF FLORIDA

Northern Regional: January 19th, 2019

Experimental Design C

Name(s): _____

Team Name: _____

School Name: _____

Team Number: _____

Rank: _____

Score: _____

Background: A catapult is a device in which tension is released in order to hurl a projectile. The catapult was invented around 400 BC and was primarily used in siege warfare throughout Europe.



You are contractors who have been hired by a historical organization to investigate the capabilities of these ancient weapons.

Task: Using the materials provided assemble and test your catapult(s). Investigate how different factors affect the distance the projectile is thrown. You have *50 minutes* to conduct, write up, and clean up your experiment.

Materials:

Popsicle Sticks	Poster Putty
Scissors	Bottlecap
Rubber Bands	Cardboard
Spoons	Tacky Glue
Clips	Ping Pong Balls
Duct Tape	Cotton Balls
Marbles of Varying Sizes	Pencils
String	Protractor
Calculators	Ruler
Digital Scale	Stopwatch
Meter Stick	Toothpicks
Graph Paper	Styrofoam
Hole Punch	Craft Beads
Hobby Wire	Wire Cutter