

## Roman Machine Scoring Guidelines

Each competing Contubernium will bring a box containing the equipment listed below with their name and Legionary number on it to the camporee. This box of equipment will be turned in Friday night at check-in. The equipment will be returned to them on Saturday when they show up for this event. They must use this equipment to solve a problem. Some of the equipment will be crucial for solving the problem; other items may or may not be useful. Contuberniums will be scored on teamwork, time, spirit, creativity, and if the problem is solved. The boxes of equipment will be returned to the Legionary at the conclusion of the event.

### Materials List

Each Contubernium needs:

- 3 sheets of paper
- pencil
- cardboard (12" x 12")
- 48" of masking tape
- plastic spoon
- 3 rubber bands
- 8 Popsicle sticks
- 4 straws
- 1 paper plate
- 1 Ping-Pong ball

### Challenge

The goal of this challenge is for a Contubernium to design and build a catapult out of the provided materials. The catapult must be able launch a ping pong ball with enough accuracy to land on a paper plate from as great a distance as possible.

### Material to be provided by Station Master:

- Boxes of materials provided by each patrol
- Measuring tape
- Stopwatches

The event judge may award up to an additional 10 points for teamwork, creative solutions, etc.

Time to successfully launch a ping pong ball:

- 0-10 minutes 50 pts
- 10-13 minutes 40 pts
- 13-16 minutes 30 pts
- 16-19 minutes 20 pts
- 20-23 minutes 10 pts
- Over 23 minutes 0 pts

Total points possible: 50 points

Additional points are awarded at the end of the day for the following places based on the distances with accuracy the ping pong balls are launched. Ping pong ball must hit the paper plate within five attempts to be counted. Patrols will determine the placement of their paper plate. At no time are patrols to be informed how far previous patrols successfully launched their ping pong ball.

1<sup>st</sup> place - 20 pts, 2<sup>nd</sup> place - 15 pts, 3<sup>rd</sup> place - 10 pts, 4<sup>th</sup> place - 5 pts, 5<sup>th</sup> place and lower - 0 pts

