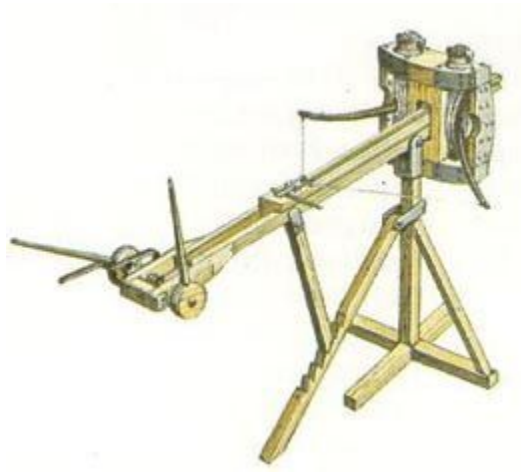


WJCL Guidelines for Scorpion Competition 2023



Challenge:

To build a fully functional authentic scorpion war machine. The competition is for crossbow only; no other Roman war machines will be judged. NO KITS ARE ALLOWED. Any team using a kit will be automatically disqualified.

Dimensions:

Base: no larger than 2 ft. wide x 3 ft. long.

Maximum height of the bow mechanism: no higher than 2.5 feet from ground

Maximum bow length and width: 3 ft. long x 2 ft. wide

Building materials:

Body should be wood. Mechanisms may include screws, nails, bolts, fasteners, metal axle, string, leather, tape.

Rules:

The only means of providing energy to the projectile will be that of a stretched string of the bow mechanism. No energy can be stored in the deformation of components. That means no springs, rubber bands, flexible wood, or pulleys may be used in the construction.

Each scorpion MUST be equipped with a remote triggering device. The scorpion must be able to be launched from a minimum distance of 3 feet to the side of the launch line. This is a safety feature and your scorpion will NOT be able to compete if it does not have a remote triggering device. It can be as simple as 2 metal eyelets, a bolt and a piece of string. For an example of a scorpion reconstruction, see the pictures at this website:

<http://www.eg.bucknell.edu/~whutchis/scorpion/Scorpion%20Documentation.pdf>

Judging criterion:

The winner will be chosen for its ability to fire an arrow-like projectile 6-inches long(to be evenly weighed (about 10 grams) and provided by the judges) the furthest distance and with the most accuracy. There will be 2 sets of throws: one set for distance and the other for accuracy.

Points will be awarded for distance, accuracy and authenticity. There will be automatic disqualification of devices made from a kit or not having a remote triggering mechanism. Points will be deducted for violations of any of the other specifications listed above.

There will be a 15 minute warm up period to allow teams to test their scorpions and make any last minute adjustments.

