

Nova Online Trebuchet Simulator

There are 5 variable you can change in an effort to destroy the castle. Before you begin building a trebuchet you will research within each variable to discover how the changes will affect your trebuchet.

Use the following website to complete this assignment –

<http://www.pbs.org/wqbh/nova/lostempires/trebuchet/destroywave.html>

Distance HINT: _____

Launch Pad HINT: _____

Sling Length HINT: _____

Ball Weight HINT: _____

Counterweight HINT: _____

Now that you have completed your research you will make at least 5 attempts to destroy the castle by changing the variables and clicking on "Fire" you will record your settings and the results for each attempt on the next page. If you do not destroy the castle at least once you must continue until you have destroyed the castle.

Attempt #1

Distance: _____

Launch Pad: _____

Sling Length: _____

Ball Weight: _____

Counter weight: _____

Results: _____

Attempt #2

Distance: _____

Launch Pad: _____

Sling Length: _____

Ball Weight: _____

Counter weight: _____

Results: _____

Attempt #3

Distance: _____

Launch Pad: _____

Sling Length: _____

Ball Weight: _____

Counter weight: _____

Results: _____

Attempt #4

Distance: _____

Launch Pad: _____

Sling Length: _____

Ball Weight: _____

Counter weight: _____

Results: _____

Attempt #5

Distance: _____

Launch Pad: _____

Sling Length: _____

Ball Weight: _____

Counter weight: _____

Results: _____

Attempt #6

Distance: _____

Launch Pad: _____

Sling Length: _____

Ball Weight: _____

Counter weight: _____

Results: _____

Attempt #7

Distance: _____

Launch Pad: _____

Sling Length: _____

Ball Weight: _____

Counter weight: _____

Results: _____

Attempt #8

Distance: _____

Launch Pad: _____

Sling Length: _____

Ball Weight: _____

Counter weight: _____

Results: _____