

## Trebuchet Qualification Checklist

Trebuchet Number: \_\_\_\_\_

Qualification Requirement	Adv. Check	Judge Check
Trebuchets, and/or their platforms, must have soft feet (felt or cloth). No rubber or wooden feet are allowed to touch the ground.		
Recoiling trebuchets (with wheels) must be on a platform (board) to stop rolling motion.		
Is the trebuchet safe? No loose parts are allowed that will break free.		
The trebuchet shall consistently throw a soft squash ball a horizontal distance of at least 30 feet before ground impact to qualify.		
No catapults or catapult/trebuchet hybrids are allowed. No energy can be stored in deformation of components. There are no springs, rubber bands, flexible arms, etc.		
No pulleys or ball bearings can be used.		
The counterweight must be attached, not looped over, the end of the arm (or close to the end). The top pivoting lever must be greater than 1/4" thick.		
The counterweight is (up to) 4 <i>unopened cans of soda</i> .		
The counterweight must be either: a) dangling throughout the entire throwing motion (makes no contact with other parts of the trebuchet lever arm), OR b) must be rigidly attached to the arm (i.e. doesn't slide, wiggle, etc.)		
The counterweight must be attached so that it does not come free on its own.		
The top pivoting lever (length L2 + L5 on the example figure) must not be able to lift off the ground in the cocked position until the counterweight is attached. Any fastening devices to be used in the competition will be included as part of the arm during testing for balance.		
The top pivoting lever must be balanced toward the projectile end (see L5 end) throughout the entire range of motion.		
The top pivoting lever (length L2 + L5) must not be longer than 3 feet 2 inches. This length includes the sling hook.		
The top pivoting lever (length L2 + L5) must not be collapsible.		
The height of the center of the pivot point (H) is less than or equal to 2 feet 5 inches.		
The judge has dated (year only) and signed trebuchet.	XXXXXXX	

Check all that apply

Failed 1st  
Check \_\_\_\_\_

Failed 2nd  
Check \_\_\_\_\_

Other (put note  
on back) \_\_\_\_\_

\_\_\_\_\_  
Qualification Judge's Signature