

### Team Trebuchet Catapult Materials List

Qty.	Item(s)	X
20'	3/4" PVC Pipe	
13	3/4" PVC Tees	
8	3/4" PVC 45° Elbows	
5	3/4" PVC End Caps	
1	PVC End Cap (See Text) <sup>a</sup>	
1	Rubber Band (See Text) <sup>b</sup>	
1	Can of PVC Cement	
1	Hardwood Dowel (7/8" x 6 3/4")	
2	Hex Bolts (3/8" x 8")	
1	Hex Bolt (1/4" x 2")	
1	Wing Nut (1/4")	
2	Wing Nuts 3/8"	
1	Flat Washer (1/4")	
2	Flat Washers (3/8")	

a: The Diameter of the cup, a standard PVC End Cap, depends on the size spherical of the projectile. The diameter cup should be approximately three-quarters the diameter of the chosen projectile. For proper operation, the projectile should be cradled by the edge of the cup and not resting on the bottom as shown in Fig. 3 of the drawings. **Read No. 1 on page 1 of the Catapult Plans for more description.**

b: The rubber band depends on the weight of the projectile you select. In general, a heavier projectile will require a thicker rubber band. However, too thick a band may cause damage to the catapult. When selecting a band, ensure that it will provide sufficient tension for the selected projectile through the catapult's entire range of motion. **Taken from No. 2 on page 1 of the Catapult Plans.**