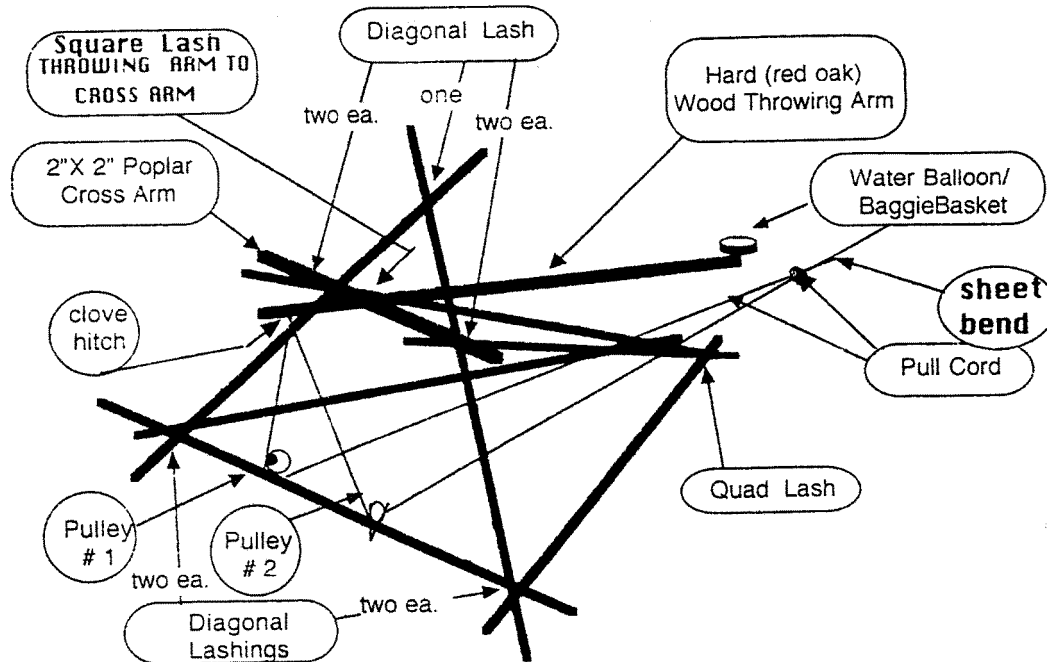


Big Horn National Youth Leadership Training

The Great Scout Ballista

Diagram of how the Ballista should be put together:



Materials Needed:

1. Two small pulleys to receive $\frac{1}{4}$ inch rope.
2. One small basket for holding the water baggie. (bottom from a 2 liter bottle)
3. Seven poles 2 inches in diameter and 10 feet long.
4. One cross-arm 5 feet long.
5. One hard wood throwing arm 10 feet long
6. Eleven $\frac{3}{16}$ inch Lashing and one $\frac{1}{4}$ inch pulling rope.
7. 50 baggies to hold water
8. Container to carry water to fill Baggies.

Assembly Instructions:

1. Use the diagram above to find which poles and ropes go together.
2. Use the 10-foot, black tipped rope and make the quad lashing. (1)
3. Use the 9-foot blue tipped ropes and make the diagonal lashings. (9)
4. Use the 8-foot 4-inch red tipped rope and make the square lashing. (1)
5. Attach the pulleys as shown in the diagram. Use several raps and a square knot to secure the pulleys so that they will not move.
6. Thread the pull rope though the pulleys. Tie sheet bend with one end of the rope to that the other end will reach about 8 feet past the Ballista. Take the rope from the middle of the pulleys and tie a clove hitch around the end of the throwing arm.

Big Horn National Youth Leadership Training

The Great Ballista Shoot-out

Rules:

1. The designated baggie filling area is neutral ground.
2. Baggies may only be launch while on the Ballista Field and may not be thrown by hand.
3. Ballista may be moved to aim, but must remain behind the established line.
4. Patrol members may not charge forward. They must stay to the immediate side or rear of their Patrol's Ballista.
5. Repairs must be made on site and replacement parts will not be provided.
6. Practice rounds shall be launched so as not to hit anyone.
7. The Senior Patrol Leader will start and stop the Shoot-out.

Safety:

1. Patrol members must stay to the side or behind and clear of the throwing arm.
2. An all clear must be sounded prior to each launch.
3. Do not run out in front of the Ballista to retrieve baggies or any other reason.

Pre Shoot-out Activity:

1. Test the Ballista for operation and performance using the Nerf balls provided. Follow the safety rules.
2. Check the tightness of your lashings.
3. Develop a strategy. Such as which patrol to target first. How to find the range and change the trajectory. How to effectively respond to other patrols. Plan ahead.
4. Fill your patrol's Baggies with water.

The Shoot-out:

1. The Shoot-out will begin with the Senior Patrol Leader addressing the Troop.
2. The Shoot-out will last 45 minutes.
3. Check your lashing often and tighten as needed.
4. Fill your Baggies with water in the designated area.
5. The Senior Patrol Leader calls a halt when time is up.

Post Shoot-out Activity:

1. The troop gathers at flags.
2. Each patrol is awarded a silver bead.
3. Patrols are recognized for the farthest launch, the highest launch, and the greatest accuracy.
4. The Senior Patrol Leader chooses one patrol as the overall winner.
5. The Patrols are dismissed to disassemble their Ballista and clean the area.
6. Each Patrol will return the Ballista equipment. Poles must be neatly stacked. The ropes dried before returning them to their containers.