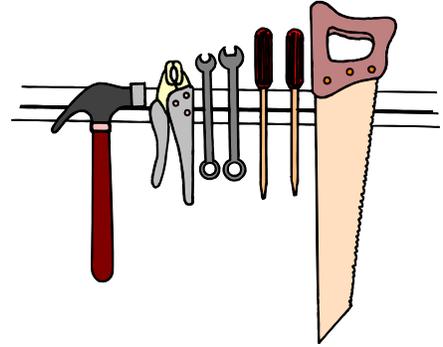


T-GAMES

Lewis County 4-H Wood Science Project

MATERIALS NEEDED:

- pre-grooved 4" square hardwood approximately 3/4" - 1" thick or pre-cut triangle shaped hardwood
- 8 golf tees (15 for triangle game)
- Sandpaper (medium & fine grit)
- Ruler
- Pencil
- Stain (optional)
- Finish



TOOLS NEEDED:

- nail set/ hammer
- Boring tool with 3/16" bit
- supplies to apply finish-gloves, nylon stockings, foam brushes, bristle brushes (needs will depend on finish chosen)

SQUARE T-GAME

Using ruler and pencil dissect each of the 9 squares to find & mark the center. Using the nail set and hammer tap a starter hole in each of the marked centers. Using a 3/16" bit drill a hole 1/2" deep in each of the squares.

TRIANGLE GAME

Laying the template provided on the wood (a piece of tape can be used to secure pattern). Using the nail set and hammer tap a starter hole in each of the 15 marks on the template.

Using a 3/16" bit drill a hole 1/2" deep in each of the 15 marks.

Sand the wood piece thoroughly. Stain the piece (optional). Varnish the entire item.

Notes on finishing:

The types of wood finishes available on the market today is unlimited. The finish product selected will determine the length of time it takes to complete a project (# of coats & drying times).

It is recommended that you consider one of the new protective finishes that is fast drying (2 hours), low odor, and cleans up with water. This choice will maximize your meeting time and eliminate taking care of any hazardous waste. Lewis County 4-H staff field tested one of these new finish products at the summer recreation program and found it to be quite satisfactory.

More specific instructions for finishing are not included because it is absolutely necessary to follow the manufacturers directions for application specific to the product you select.

Instructions To Play:

Use the square t-game to play tic-tac-toe

For the triangle game: Starting with the middle hole in the base empty, jump and remove the pegs jumped, leaving the last peg in the hole that was originally empty.

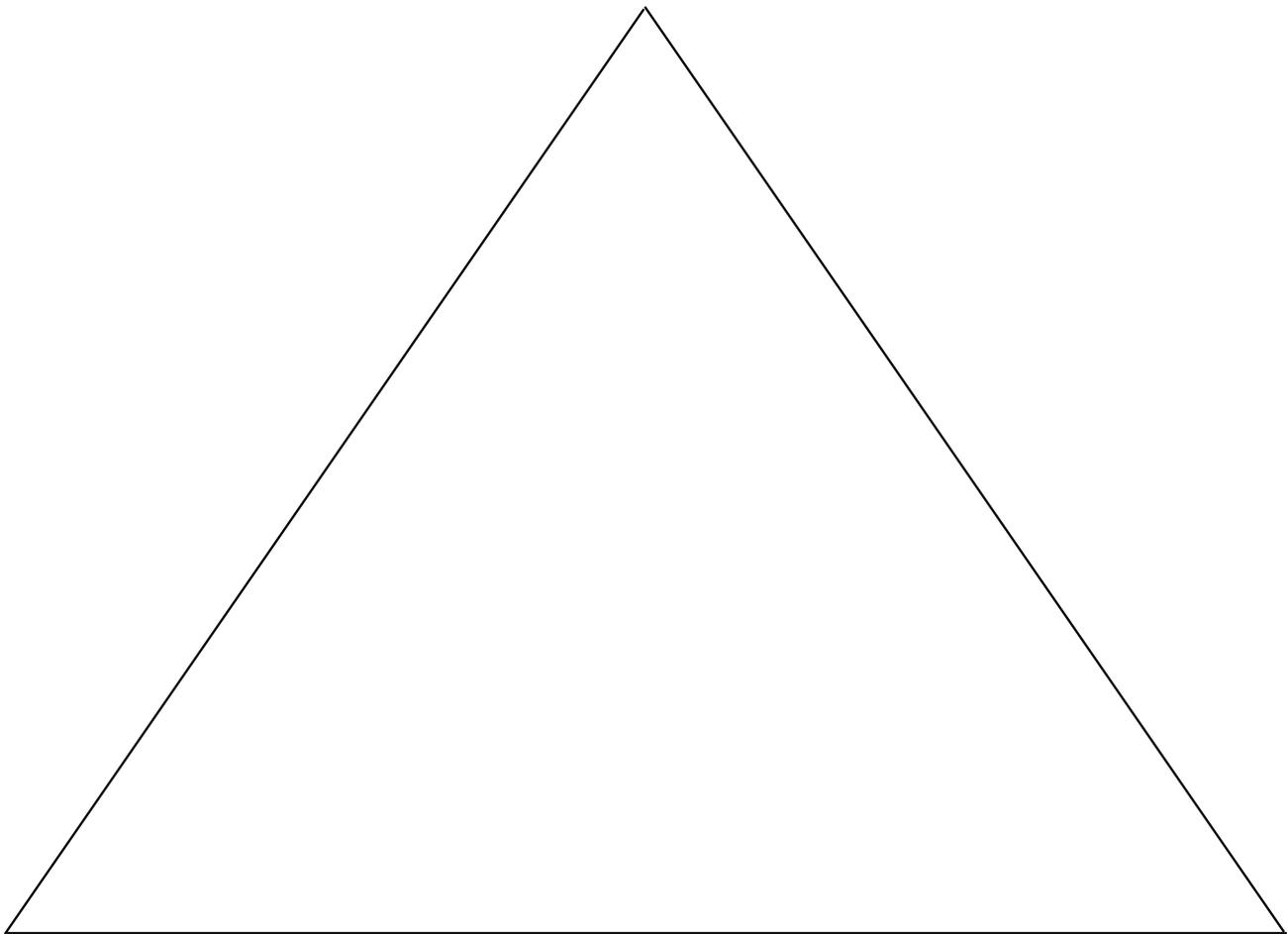
Leader Note: Please refer to The Wonderful World of Wood Unit I & II for objectives for 4-H Woodworking and instructions for each specific tool used.

Leaders engaged in woodworking projects should be aware that there are various state and federal laws that impact on the use of power tools and equipment by minors.

Staying within the educational guidelines of the 4-H Woodworking program will help leaders avoid inadvertent violation of any statutes pertaining to the use of power tools and equipment by minors. For example: establish guidelines and a format that indicate that the power tools are being used solely for an educational purpose; include safety instructions and use of safety equipment (such as eye glasses, equipment guards).

An added dimension to any 4-H woodworking project could be a discussion on the species of lumber being used for the project. The t-game kits you are using have been fabricated from quite a variety of hardwoods to include ash, maple, cherry, white & red oak. Why not take a hike in the woods with a tree identification manual and try to locate one or more of these species which are native to your area.

Solution - 5-1; 7-5; 8-15; 4-6; 1-5; 6-4; 3-5; 12-14; 10-8; 8-15; 5-1; 2-12 ; 11-1



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