



Winter Trees



Comox Valley Schools

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ADST Project

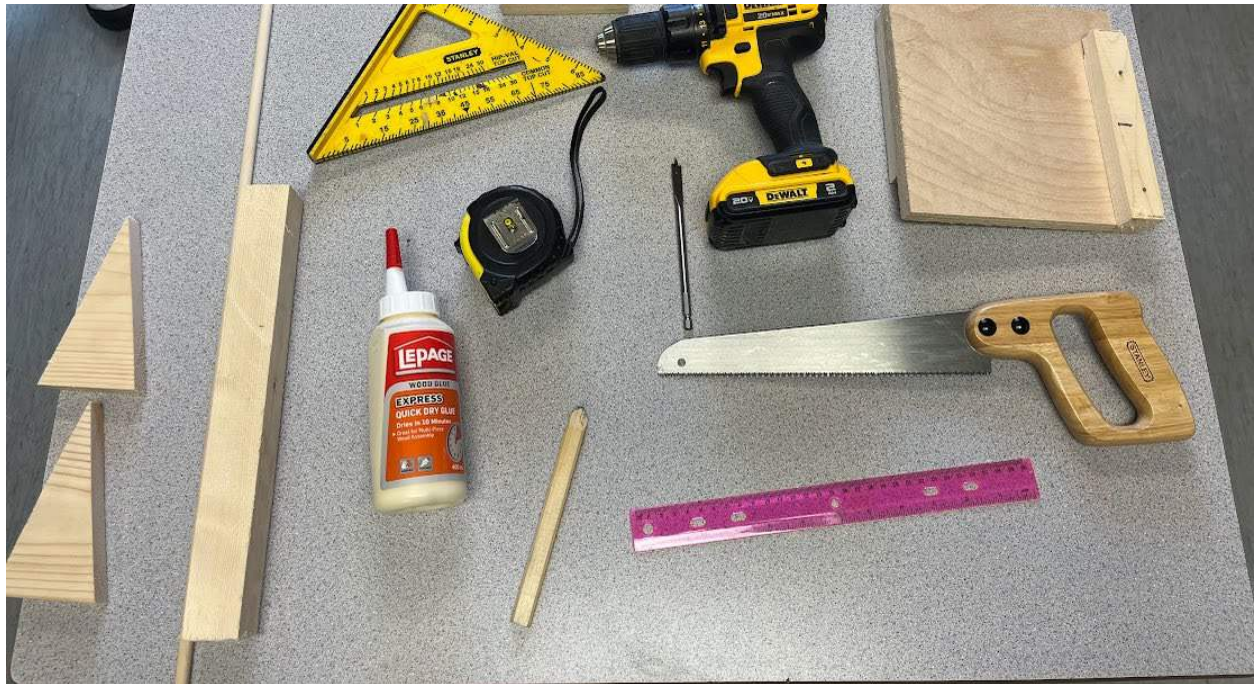
Wooden Christmas Trees are a great ADST project for students in grades 3-5.

The first thing that you will need to do as a teacher is get trained in using your Toolbox & Maker Cart. Once you are Safe and Certified you will need to do an inventory on your Toolbox and your Maker Cart. Each cart and your 12 kits have master lists of what should be in them. If you are not sure or if you will need additional resources, please contact your District Careers Coordinator and they will be able to help you, Dawn.Anderson@sd71.bc.ca

You can watch our Youtube video here that goes through all the steps of the build!
<https://www.youtube.com/watch?v=rO43edYMJGQ>



For this project you will need the following items:



1. 3/8" Doweling
2. Safety Glasses
3. Measuring Tape
4. 3/8 Drill Bit
5. 2 triangle wood pieces
6. Ruler
7. Clamp
7. Drill
8. Bench Hook
9. Wood Glue
10. 2x4 wood split in half
11. Speed square
12. Saw

Once you have everything you are ready to start your project, don't forget to put on your safety glasses!

Step 1: For this step you will need:

- 2x4 wood cut in half
- speed square
- measuring tape

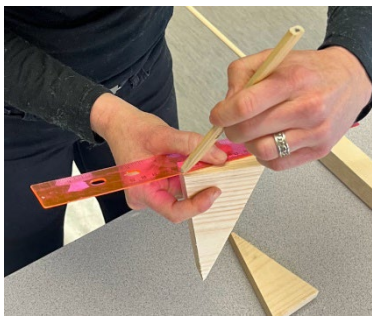
Using your 2x4 that is already cut in half, measure 4.5". Use your speed square to make a straight line.



Step 2: Use your measuring tape to mark your doweling. Mark 1 line at 3.5 inches. Then measure another 6 inches (9 ½ inches total).



Step 3: Looking at the bottom base of your tree, you will need to locate the middle of each piece of wood as we are going to drill through each piece using a drill. To find the mid-point of each piece you can take your speed square (or ruler) and use it like a ruler by placing it on one corner and across to the far corner. Then using your pencil draw a line across to the far corner. You will need to do this on each of the top corners. When done, you should have an X across the bottom base of your wood.



STEP 4: Next with your 2x4 base, measure to mark 1" from each end of your 4 ½" base, so you have 2 marks on your base. You may also choose to measure this after you cut your 2x4.



Step 5: Use your Bench Hook to make your cuts on your 2x4 and doweling.



Step 6: Using your 2x4, drill a small hole on the top where you marked 1 inch. Slowly drill a hole into the wood, but not all the way through. You could even put a piece of tape on your drill bit where students should stop. Once through, place the drill in reverse and pull it back out. Do this on both sides.

Step 7: Using your clamp, clamp your triangle cut to the table. Drill a hole into the base where you marked your X. Like step 7, you may want to have a piece of tape on your drill bit of where students should stop. Put your drill in reverse and pull back out.



Step 8: Glue your doweling to your base and tree bottoms.

Congratulations, you should now have a beautiful Winter Tree. You may paint, stain, leave raw and or decorate in any fashion desired!

