

Festive Pumpkin



Jr. ADST

Festive Pumpkins are a great ADST project for students in grade 6.

The first thing that you will need to do as a teacher, is get trained in using your school Maker Cart. Once you are Safe and Certified you will need to do an inventory on your ADST Toolbox kits (there are 12 for your school) 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 or Steve.Claassen@sd71.bc.ca

Jr. ADST (Applied Design Skills and Technology)

ADST courses have been designed so that students can gain hands-on learning experiences and skills through design and creation. The Curricular Competencies within these courses ask students to understand context, define what they need to do, ideate with others and evaluate, prototype, test their ideas, make and share.

With this, these booklets have been designed to support new to experienced users and there are many ways to approach each step.

Feel free to challenge your students to come up with new ways to compete a step in the booklet. Some of the steps are challenging and should be completed with a partner.

Please share if you have a good approach to a step and we can tweak the booklet for all.

For this project you will need the following items:



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|------------------------------------|--------------------------|
| 1. Hammer | 7. Glue Gun and glue |
| 2. F Clamp | 8. Jigsaw (Teacher only) |
| 3. Measuring Tape | 9. Sandpaper |
| 4. Safety Glasses for each student | 10. 1" x 6" wood |
| 5. Ear Plugs (if wanted) | 11. Twine |
| 6. Hand saw | 12. Dowel |

Once you have everything you are ready to start your project. Don't forget to put on your safety glasses.

STEP 1:

Read over the following document with students. Students will be able to design their own pumpkin based on the specifications outlined below. I suggest writing the steps on the board in short form so students can move ahead if needed.

A tip, have a demo project sitting at the front of the class for students to reference. As well, review measuring with inches before you start.

STEP 2:

Students will each get a 1" x 6" piece of wood. They will measure up, from the end, to 8" and 16"; then they will mark these spots.

Then, using your speed square draw a straight line across.



STEP 3:

Students will now clamp their wood and cut along their lines- straight across. When done, they will have two 8" piece of wood.

STEP 4:

Students will now get their measuring tape and speed square. They will measure up 4" on each piece and mark the spot. Next, they will lightly use their speed square and draw a line across at the 4" mark.

STEP 5:

At the newly drawn line, measure in $2 \frac{5}{16}$ " from both sides. We are measuring the cut-out. Then draw a line down to the bottom of the wood on both sides. The long rectangular piece in the middle is getting cut out. Students may want to mark the spot that is getting cut out with X's.

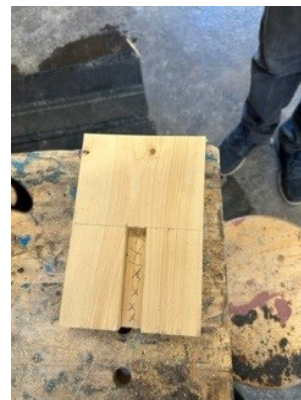


STEP 6:

Once ready, go see the teacher who has the jigsaw. They will clamp the wood to the table and cut the piece out for the student.

STEP 7:

Students will need to repeat step 5 on their second piece of wood, but they may choose to trace their cut out onto their second piece. This way they will match.



STEP 8:

Once again, take your wood back to the teacher to get your second piece cut out.



STEP 9:

Next, we are going to cut the corners. To do this, students will need to measure in from each corner 1 ¼" and mark the spot. Then, take your speed square and slide it down until you hit the mark and draw your line.



STEP 10:

Students will now need to clamp and cut their 8 sides. Once complete, the pumpkin can slide together. Students may want to sand their wood to make it smooth.



STEP 11:

Students now cut their dowel to create a stem. Each student will measure 2" in from the end of the dowel. It will be glued to the top of the pumpkin once everything has been painted.

STEP 12:

Students can now paint their pumpkin and stem. Once dry they can glue (using a glue gun) the stem (dowel) on to the top of the pumpkin and tie a piece of twine to the stem. Teachers may want students to glue their stem on before they paint so they don't lose it.



Congratulations, you now have a decorative pumpkin 😊