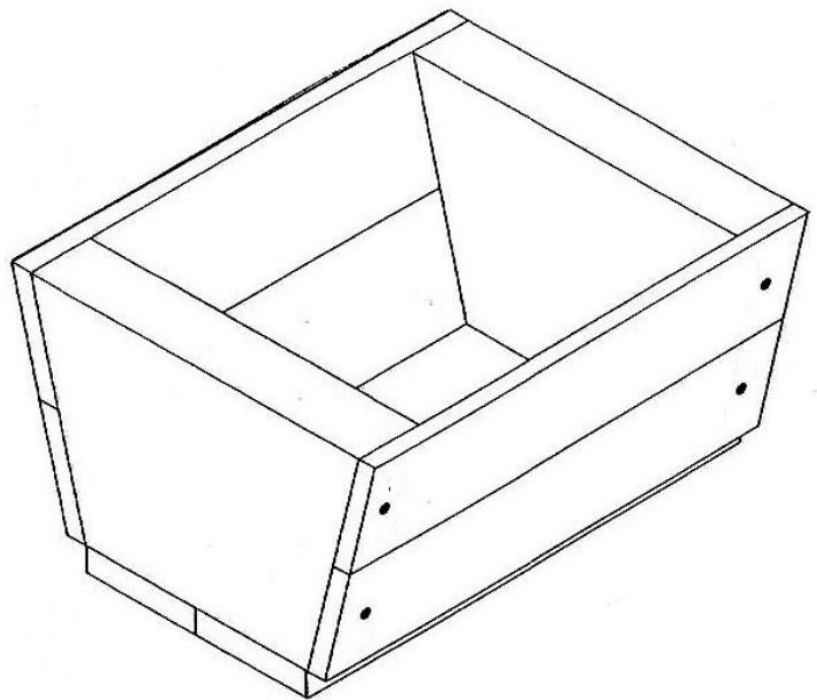


The Elementary Woodshop

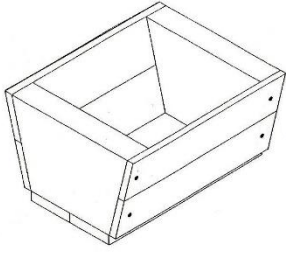
Applied Design, Skills and Technologies

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PLANTER



Recommended Reading Prior to Beginning Workbook and Assembly



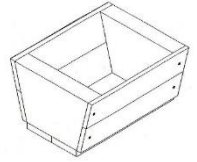
Planter Reference Guide for Teachers

For a successful experience in your classroom it is recommended that you work through the accompanying Workbook and this Reference Guide prior to presenting the project to students.

As you work through the Workbook, it would be beneficial to assemble the woodwork project so you are better equipped to teach the assembly to your students. You may temporarily hold the wood pieces together using masking tape rather than glue and nails which are required for permanent assembly with this woodwork project. The recommended drying time for wood glue is a minimum of 30 minutes.

A hammer is required for this project and it is recommended that students work together to build their planters; one holding the parts while the other hammers the nails into place. As wood may splinter it is advisable to handle wood with care and have tweezers available in case of slivers.

Planter Reference Guide for Teachers



Section 1 Math

Shapes

Page 1

***NOTE TO TEACHER** - *Distribute six Part A and two Part B pieces to each student.*

Page 2

2. **Rectangle**
3. **Square**
4. **One shape has all equal sides, one shape has unequal sides**

Page 3

6. **Trapezoid**
7. **Part B has angled sides**

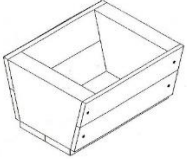
Measuring

Page 3

1. **146 mm**
2. **876 mm**

Page 4

3. **115 mm**
72 mm



Planter Reference Guide for Teachers

Section 2 Materials Technology

Section 2 (Page 6) discusses traditional Aboriginal perspectives and knowledge of the cedar tree. This may be an opportunity for your students to research the cultural value of a tree or plant common to your local area.

Page 9

***NOTE TO TEACHER** - *Distribute softwood samples.*

Students will be comparing characteristics such as odour, weight and colour.

1. **Cedar**
2. **Fir**
3. **Cedar**
4. **Pine**

Wood Technology

Page 10

2. **Eight**

***NOTE TO TEACHER** - *Distribute sample of log slice.*

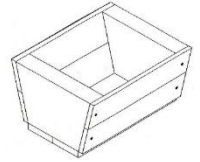
Students will be counting the rings on the sample to determine the age of the tree.

3. **Refer to rings on sample**

Page 12

5. **Annual Tree Rings**

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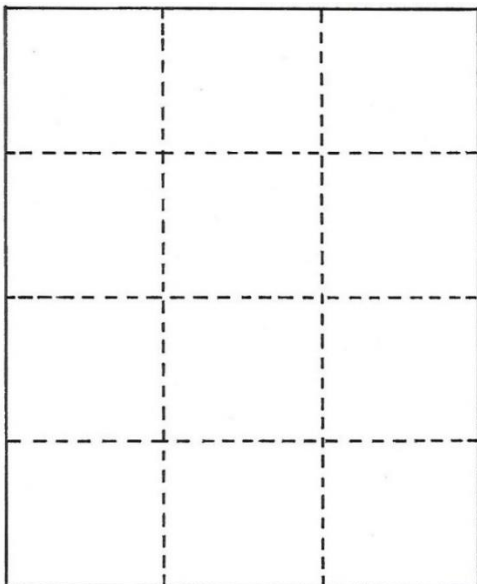
Section 3 Assembly

Page 19

If a hammer were to hit a nail incorrectly the nail may fly into or near the eyes. Dust and wood particles may also enter the eyes.

Page 21

Mark and cut sandpaper as in diagram to fit sanding blocks:

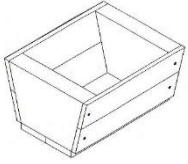


***NOTE TO TEACHER** – *Distribute sanding blocks and one piece each of pre-cut coarse and medium sandpaper.*

Discuss different grits of sand with students. Larger grit is used first on rough wood; smaller grit is used for smooth finishing.

Page 22

*** NOTE TO TEACHER** - *Have students select the smoothest side of each piece to represent the front of each piece. Students will use sandpaper to round the two long edges on the front side of each piece.*



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Section 4 Technical Drawing

Page 29

2. **146 mm long**
80 mm high

Page 30

3. **146 mm long**
80 mm high

Page 32

5. **127 mm wide at the top**
76 mm wide at the bottom

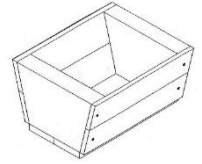
Section 5 Science and Nature

Page 35

Word Search

R	O	S	E	K	T
R	T	U	L	I	P
M	L	I	L	A	C
D	A	I	S	Y	O
I	N	B	W	Z	D
P	A	N	S	Y	R

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Section 6 Design Challenge

Page 41

* **NOTE TO TEACHER** – *Have students brainstorm different building materials.*

Hanging basket material suggestions: old boot/shoe, plastic or metal food container, bucket, branches or popsicle sticks woven or glued together.

As long as the planter and the hanging mechanism can hold the soil and allow for drainage there are no limits.

Section 7 Trades

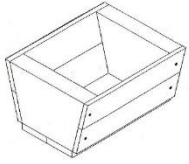
Page 46

Carpenter

Horticulturist

Page 46

Welding



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Cedar: A Journey into Time Memorial. SFU Museum of Archaeology and
Ethnology www.sfu.museum/time/en/panoramas/beach/cedar/

Importance of Cedar. - SFU Museum of Archaeology and Ethnology
www.sfu.museum/time/en/videos/13/

Simon Fraser University: First Nations of the Northwest Coast Kindergarten
to Grade 12 Resources
<https://www.sfu.ca/brc/educator-resources/northwest-coast-art-and-culture.html>

Thunderbird Park. Royal British Columbia Museum, Victoria, B.C.
[www.royalbcmuseum.bc.ca/Online Ex/default.aspx](http://www.royalbcmuseum.bc.ca/Online_Ex/default.aspx)

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