

## **MATERIALS & PLANT LIST WITH PRICES (EXAMPLE)**

Competitor teams will be given a select list of available plants and materials to design their proposed landscape projects. Each team will be given the list and 2D site plan during orientation on contest day.

All lists will include prices per item and by quantity. Competitor teams will not be working with real plants. All 3D model plants will be created by hand by teams using the supplied materials on the contest. Plants can be created from a variety of materials and using student imaginations. There will be real soil, gravel, woodchips, available to use in the 3D model, if teams choose to use it in their model. Teams must select and create plants and materials based on what fits effectively into their design schemes, client desires and project budget. All plants and material costs must be accounted for in the final submitted team « Company » invoice.

FRUIT/ VEGETABLE PLANTS	PRICE	PLANT TRAIT	PHOTO
Any annual vegetable, including but not limited to carrots, squash, tomato, peas, beans, corns, etc (species to be listed on your invoice and 2D drawing)	\$10 each	Varies, typically full sun	 

<p>Any perennial fruit or vegetable (raspberry, strawberry, grape vines asparagus, rhubarb, Jerusalem artichokes (sunchokes), horseradish, and various perennial herbs like chives, sorrel, etc). (species to be listed on your invoice and 2D drawing)</p>	<p>\$20 each</p>	<p>Varies, typically full sun</p>	     
<p>Any Fruit Tree (grown in Ontario, for example peaches, pears, plums, etc)</p>	<p>\$200 each</p>	<p>Varies, typically full sun</p>	 

<p>Apple Tree (<i>Malus domestica</i> 'Honeycrisp')</p>	<p>\$200 each</p>	<p>Hardiness Zone: 3-6 (very cold-hardy)</p> <p>Mature Size: Standard: 15-20 feet tall, 12-15 feet wide</p> <p>Sunlight Needs: Full sun (6+ hours of direct sunlight per day)</p> <p>Soil Preference: Prefers well-drained, loamy soil with good fertility.</p> <p><b>Landscape Uses</b></p> <p>Ideal for home orchards and backyard fruit production</p> <p>Cold-hardy and productive in prairie climates</p> <p>Sweet, crisp apples with long storage life</p> <p>Beautiful spring blossoms attract pollinators</p> <p>Great for fresh eating, baking, and cider</p>	
ANNUALS	PRICE	PLANT TRAITS	PHOTO
<p><i>Petunia (Petunia atkinsiana)</i></p>	<p>1x \$15.00 5x \$50.00</p>	<p><b>Sun: Full sun</b></p> <p><b>Soil: Mature Plant</b></p> <p><b>Height: 5-7" (12.7-17.8cm)</b></p> <p><b>Full Spread: 36-48" (91.4-121.9cm)</b></p> <p><b>Notes:</b> Spreading petunia. Choose when you need ground-hugging carpets of color that spread up to 4 feet /1.2 meters. Perfect for growing low and filling in fast over retaining walls and landscapes.</p>	

Perennials	Price	Plant Traits	Photo
<b>Snapdragon</b> ( <i>Antirrhinum majus</i> )	1x \$15.00 5x \$50.00	<p><b>Growth Habit:</b> Upright growth to 3 feet on long, sturdy stems with uniform flowering</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Rich, well-drained, moist soil</p> <p><b>Notes:</b> Snapdragon is an elegant fresh cut flower with long vase life. Edible flowers make beautiful decorations in desserts and salads - flavour is floral although slightly bitter. Flowers attract beneficial pollinators.</p>	
<b>Zinnia</b> ( <i>Zinnia elegans</i> )	1x \$15.00 5x \$50.00	<p><b>Growth Habit:</b> Upright bushy growth to 4 feet with 4-6" flowers.</p> <p><b>Sun Requirements:</b> Full sun</p> <p><b>Soil Preference:</b> Average, well-drained soil</p> <p><b>Uses:</b> Elegant cut flowers. Attractive to hummingbirds and butterflies.</p> <p><b>Notes:</b> This is a great all around open pollinated flower variety, adaptable to any home flower garden.</p>	

Butterfly Milk Weed - ( <i>Asclepias tuberosa</i> )	1x \$15.00 5x \$50.00	<p><b>Hardiness Zone:</b> 3–9</p> <p><b>Sun:</b> Full sun</p> <p><b>Soil:</b> Dry to medium, well-drained, sandy or gravelly soils</p> <p><b>Pollinator Value:</b> (Monarch butterflies, native bees)</p> <p><b>Notes:</b> Drought tolerant once established; brilliant orange blooms</p>	
Wild Bergamot ( <i>Monarda fistulosa</i> )	1x \$15.00 5x \$50.00	<p><b>Hardiness Zone:</b> 3–9</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Medium, well-drained</p> <p><b>Pollinator Value:</b> (Bees, butterflies, hummingbirds)</p> <p><b>Notes:</b> Aromatic foliage</p>	
Sky Blue Aster- ( <i>Aster oolentangiensis</i> )	1x \$15.00 5x \$50.00	<p><b>Hardiness Zone:</b> 3–8</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Dry to medium, well-drained</p> <p><b>Pollinator Value:</b> (Late-season bees, butterflies)</p> <p><b>Notes:</b> Excellent fall colour and late bloom interest</p>	

Black-eyed Susan <i>(Rudbeckia hirta)</i>	1x \$15.00 5x \$50.00	<p><b>Hardiness Zone:</b> 3–7</p> <p><b>Sun:</b> Full sun</p> <p><b>Soil:</b> Dry to medium, well-drained</p> <p><b>Pollinator Value:</b> (Bees, butterflies; seed for birds)</p> <p><b>Notes:</b> Short-lived perennial; readily self-seeds</p>	
Foamflower ( <i>Tiarella cordifolia</i> )	1x \$15.00 5x \$50.00	<p><b>Hardiness Zone:</b> 3–8</p> <p><b>Sun:</b> Part shade to shade</p> <p><b>Soil:</b> Moist, rich, well-drained</p> <p><b>Pollinator Value:</b> (Early-season native bees)</p> <p><b>Notes:</b> Excellent groundcover</p>	
Purple Coneflower <i>(Echinacea purpurea)</i>	1x \$15.00 5x \$50.00	<p><b>Hardiness Zone:</b> 3–8</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Medium, well-drained</p> <p><b>Pollinator Value:</b> (Bees, butterflies; seed for birds)</p> <p><b>Notes:</b> Long bloom period; drought tolerant once established</p>	

Bee Balm ( <i>Monarda didyma</i> )	1x \$15.00 5x \$50.00	<p><b>Hardiness Zone:</b> 4–9</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Moist, well-drained</p> <p><b>Pollinator Value:</b>(Hummingbirds, bees, butterflies)</p> <p><b>Notes:</b> Prefers good air circulation</p>	
Spotted Joe-Pye Weed ( <i>Eutrochium maculatum</i> )	1x \$15.00 5x \$50.00	<p><b>Hardiness Zone:</b> 3–8</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Moist to wet</p> <p><b>Pollinator Value:</b>(Butterflies, bees)</p> <p><b>Notes:</b> Tall background plant; great for rain gardens</p>	
Large Trees	Price	Plant Traits	Photo
White Oak ( <i>Quercus alba</i> )	1x \$200	<p><b>Hardiness Zone:</b> 3–9</p> <p><b>Sun:</b> Full sun</p> <p><b>Soil:</b> Medium, well-drained</p> <p><b>Notes:</b> Supports hundreds of insect species</p>	

Eastern Hemlock ( <i>Tsuga canadensis</i> )	1x \$200	<p><b>Hardiness Zone:</b> 3–7</p> <p><b>Sun:</b> Part shade to shade</p> <p><b>Soil:</b> Moist, acidic, well-drained</p> <p><b>Notes:</b> Great cover for birds and other wild life</p>	
Sugar Maple ( <i>Acer saccharum</i> )	1x \$200	<p><b>Hardiness Zone:</b> 3–8</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Moist, well-drained</p> <p><b>Notes:</b> Great for early pollinators and birds</p>	 <small>© 2024 iTrees.com, Inc.</small>
Red Oak ( <i>Quercus rubra</i> )	1x \$200	<p><b>Hardiness Zone:</b> 3–8</p> <p><b>Sun:</b> Full sun</p> <p><b>Soil:</b> Medium, well-drained</p> <p><b>Notes:</b> Produces acorns, and supports hundreds of insects</p>	 <small>© 2024 iTrees.com, Inc.</small>

Eastern White Cedar ( <i>Thuja occidentalis</i> )	1x \$200	<p><b>Hardiness Zone:</b> 2–7</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Moist to wet</p> <p><b>Notes:</b> Winter cover for birds and other wild life</p>	
Small Trees / Shrubs	Price	Plant Traits	Photo
Serviceberry ( <i>Amelanchier canadensis</i> )	1x \$100	<p><b>Hardiness Zone:</b> 3–8</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Moist, well-drained</p> <p><b>Notes:</b> Good for early pollinators and birds</p>	
Eastern Redbud ( <i>Cercis canadensis</i> )	1x \$100	<p><b>Hardiness Zone:</b> 4–9</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Moist, well-drained</p> <p><b>Other:</b> Great for early bees</p>	

Chokecherry ( <i>Prunus virginiana</i> )	1x \$100	<p><b>Hardiness Zone:</b> 2–7</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Adaptable, well-drained</p> <p><b>Notes:</b> Great for pollinators and birds</p>	
Nannyberry Viburnum ( <i>Viburnum lentago</i> )	1x \$100	<p><b>Hardiness Zone:</b> 2–8</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Moist, well-drained</p> <p><b>Notes:</b> Great for birds and bees</p>	
Ninebark ( <i>Physocarpus opulifolius</i> )	1x \$100	<p><b>Hardiness Zone:</b> 2–8</p> <p><b>Sun:</b> Full sun to part shade</p> <p><b>Soil:</b> Dry to medium</p> <p><b>Notes:</b> Good for bees</p>	
Grasses & Hedges	Price	Plant Traits	Photo

Little Bluestem ( <i>Schizachyrium scoparium</i> )	1x \$15.00 5x \$50.00	<b>Hardiness Zone:</b> 3–9  <b>Sun:</b> Full sun  <b>Soil:</b> Dry to medium, well-drained	
Fox Sedge ( <i>Carex vulpinoidea</i> )	1x \$15.00 5x \$50.00	<b>Hardiness Zone:</b> 3–7  <b>Sun:</b> Full sun to part shade  <b>Soil:</b> Moist to wet	
Big Bluestem ( <i>Andropogon gerardii</i> )	1x \$15.00 5x \$50.00	<b>Hardiness Zone:</b> 3–9  <b>Sun:</b> Full sun  <b>Soil:</b> Medium, well-drained	
Additional Landscaping Materials	Price	Material Details	Photo
Pea Gravel	\$200 for 100 lb bucket (1 cup full)	<b>Appearance:</b> Small and smooth rounded stone mix  <b>Size:</b> Each piece is typically 3/8-inch in size, roughly the size of a pea.  <b>Colours:</b> Ranges from neutral greys and browns and more	

		<p>vibrant natural shades.</p> <p><b>Durability:</b> Durable, low maintenance and provides excellent drainage.</p> <p><b>Uses:</b> Ideal for paths, patios, play areas and gardens.</p>	
Armor Stone	\$100 per stone	<p><b>Appearance:</b> Large, dense and durable natural stone with a smooth texture and often polished finish.</p> <p><b>Size:</b> Typically 1-3 feet in length and 12-36 inches in depth. Suitable for large scale projects.</p> <p><b>Colours:</b> Ranges from light greys and creams to dark browns.</p> <p><b>Durability:</b> Cut from durable stone types such as limestone, does not erode, can be used near water.</p> <p><b>Uses:</b> Creating stable retaining/garden walls, decorative garden accent pieces, steps, seating.</p>	 
White River Rock	\$200 for 100 lb bucket ( <i>1 cup full</i> )	<p><b>Appearance:</b> Smooth, naturally rounded smaller stone mix, often quartz.</p> <p><b>Size:</b> Ranging in size from small pebbles to stones about 1-3 inches.</p> <p><b>Colours:</b> Mix of bright white, cream and grey, often provides stark contrast in landscaping.</p> <p><b>Durability:</b> Durable, long-lasting and resist fading from sun</p>	

		<p>exposure.</p> <p><b>Uses:</b> Around shrubs/trees, walkways, garden beds, near/around ponds and fountains. Retains moisture.</p>	
Wood Stumps	1x \$50.00	<p><b>Description:</b> Cut from tree trunks. Versatile, eco-friendly and rustic element for landscaping.</p> <p><b>Uses:</b> For seats in an outdoor garden, natural sculptures, planters, shelter for insects and birds.</p>	
Pressure Treated Pine	\$100 for a bundle of 50 1x6x6 pieces	<p><b>Description:</b> Durable, rot resistant lumber designed for exterior projects.</p> <p><b>Uses:</b> Fencing, decks, garden beds, walkways.</p>	
Planting Materials	Price	Material Details	Photo
Triple Mix (Garden Soil)	\$100 per cubic yard	<p><b>Description:</b> Nutrient-rich and versatile planting medium composed of topsoil, compost, and peat moss.</p> <p><b>Uses:</b> Ideal for vegetable gardens, flower beds, lawn maintenance.</p>	

Sand	\$100 per cubic yard	<p><b>Description:</b> Clean and fine sand.</p> <p><b>Uses:</b> Ideal for general landscaping, filling gaps, water drainage and leveling for patios, walkways and driveways.</p>	
Organic Wood Chip Mulch	\$100 per cubic yard <i>(1 cup full)</i>	<p><b>Description:</b> Natural, biodegradable ground cover made from shredded or chipped trees, including bark, branches and leaves.</p> <p><b>Uses:</b> Suppresses weeds, retains soil moisture and fertilizes. Used in garden beds, perennial beds, around trees and on walking paths.</p>	
Grass/Sod	\$5 per square foot <i>(includes labour and ground preparation)</i>	<p><b>Description:</b> Squares of mature, living grass and soil that is held together by the root system or thin underlayer.</p> <p><b>Uses:</b> Creates an instant, lush lawn and is faster and more effective than seeding. Laid down like a green carpet on top of soil.</p>	 

A cubic yard in landscaping is a unit of volume measuring 3 feet by 3 feet by 3 feet (3' x 3' x 3'), totaling 27 cubic feet of material. It is the standard measurement for purchasing bulk materials like mulch, soil, gravel, and sand. One cubic yard is roughly equivalent in size to a standard washing machine.

#### Key Details About Cubic Yards:

- **Volume, Not Weight:** A cubic yard measures space, not weight. A cubic yard of topsoil weighs about 1,800 lbs, while gravel is around 2,200 lbs.

- **Coverage Example:** One cubic yard will cover roughly 100 square feet at a depth of 3 inches.

Competitor teams are permitted to bring (non-electronic) paper resources with them to the contest and refer to them during the competition. Resources may include botany or garden design textbooks, plant species catalogues, design sketches or notes.

Example