# CONICALS INFOSHEET





Conicals provide a permanent, pyramidal form of playhouse for gathering and dramatic play. Constructed from geometrically arranged poles converging at their upper ends, conicals can be created from metal, dimensioned lumber, harvested tree branches, PVC, or bamboo. Sizes range from a small structure for two or three children to a space large enough for a group of ten. Covering can be light fabric or edible vines which provide an attractive "green playhouse." Perennial, fragrant vines add sensory stimulation. For detailed installation instructions, see the Vine Conical Installation Guide.

## MATERIALS

**Structure.** A variety of materials can be used for the structure of an outdoor conical. Consider cost and durability when selecting materials. Bamboo is a light-weight, abundant material that can be found for free or at low cost. Felled tree branches are similarly easy to acquire, but will need replacing as the wood decomposes. PVC is another light-weight material that can be easily found at home improvement stores. 1/2-inch rebar and steel is more expensive, but will last longer than degradable materials.

**Covering.** Materials such as burlap or canvas are recommended because they resist weather changes and will show little wear and tear. Weaving colorful, patterned strips of fabric between supporting poles can be a creative and collaborative activity for children to complete a conical. Ensure the covering provides sufficient shade for extended play. Natural materials, such as edible or flowering vines, connect children with nature and add sensory play stimulation.

# LOCATION

For a conical covered in climbing vines, select a sunny location with well-draining soil. Locate the conical away from high-activity settings and primary pathways to create a sense of privacy for children.

# SIZE

To create a space that 2-4 children can inhabit, the conical should be approximately 8 feet across and 8 feet tall inside. Structural poles should be 10 feet tall to accommodate an 8 foot wide structure. When building a conical of this size, the entrance should be 24-30 inches wide.



A small conical constructed using wooden poles and covered in vines makes a lush, green retreat.



A conical covered in woven jute fabric provides a cozy, social reading nook.

#### **INTERIOR COMPONENTS**

Interior components such as sitting logs, sitting stones, and outdoor blankets create an inviting hide-away for children. Painted rocks, toadstools, garden gnomes, hanging bells, and other decorations enhance play and learning opportunities. Be creative with interior decorations and explore possible themes such as "fairy garden" or "wild jungle" to create an immersive experience. Involve the children in making and implementing decisions.

## SUPPORTING VINE GROWTH

Support is needed for vines to climb and grow around the conical. Once the structure is created, use twine, jute, or a similar string material to weave a "zig-zag" pattern between adjacent conical poles. Plant vine plants at midpoints between poles and add mulch around plants and conical floor. Vines should be trained on the woven twine and poles as they grow. Use "twist ties" to anchor them.

## **RECOMMENDED VINES**

Below is a list of popular vines for naturalizing outdoor conicals. Annual vines need to be replanted each year, while perennial vines go dormant for the winter and bloom again the following season. Consider desired maintenance plan, available sunlight, and soil quality when choosing conical vines. Runner beans are a popular choice because they grow quickly, have beautiful blooms, and add an edible component to the outdoor learning environment.

#### Annuals:

Bottle gourd, *Lagenaria siceraria* Climbing nasturtium, *Tropaeolum majus* Cucumber 'Mexican sour gherkin', *Melothria scabra* Hyacinth bean 'Ruby Moon', *Dolichos lablab* 

#### **Perennials:**

Coral honeysuckle, Lonicera sempervirens Chocolate vine, Akebia quinata Cross vine, Bignonia capreolata Hardy kiwi, Actinidia arguta Passion flower, Passiflora incarnata Scarlet runner bean, Phaseolus coccineus Yellow star jasmine, Trachelospermum asiaticum

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A temporary conical covered in corn stalks marks the fall season

Children picking snacks off of edible conical vines!



An open bamboo conical installed as a decorative feature in a garden bed.

#### RESOURCES

Infosheet: Vine Conical Installation: <u>https://naturalearning.org/08-vine-conical-installation/</u>