

How to Build a Tree

Build it step by step. Score big!

STEP 1

Place one round foam block in the planting container.



1 1st block = **10 points**

STEP 2

Stack a second round foam block directly on top.



2 2nd block on top = **30 points**

STEP 3

Place one foam cone on top of the two blocks.



3 Cone on top = **50 points**

ONE COMPLETED TREE



1 Cone
2 Round Blocks
1 TREE

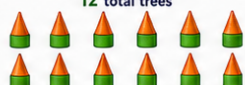
1 TREE = 90 POINTS TOTAL

SHARED RESOURCES ARE LIMITED

Shared nursery = 24 round blocks + 12 cones



That is enough for 12 total trees



Two robots would need materials for **16 trees total** to fill all 4 containers each

12 AVAILABLE TREES

VS.

16 TREES NEEDED

Faster robots can build more trees

Each container needs 2 trees

Each robot has 4 containers

FLEXIBLE TREE BUILDING STRATEGIES

Teams may build trees in different valid sequences. Any valid strategy is allowed as long as all other game rules are followed.

1 Build one whole tree at a time

Step 1 → Step 2 → Step 3 → Then, start the next tree.



2 Build multiple trees in stages

Stage 1 → Stage 2 → Stage 3

Place first blocks for all → then second blocks → then cones.



3 Mixed strategy / Any valid sequence

Teams choose the best order based on their robot strategy.



Build strong. Build smart. Build trees and score big!