

Basic Shape: Square

Pieces used

x 4

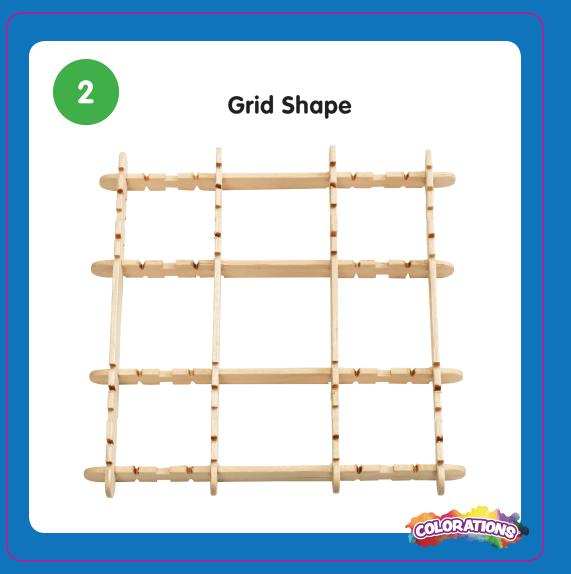
Variation:

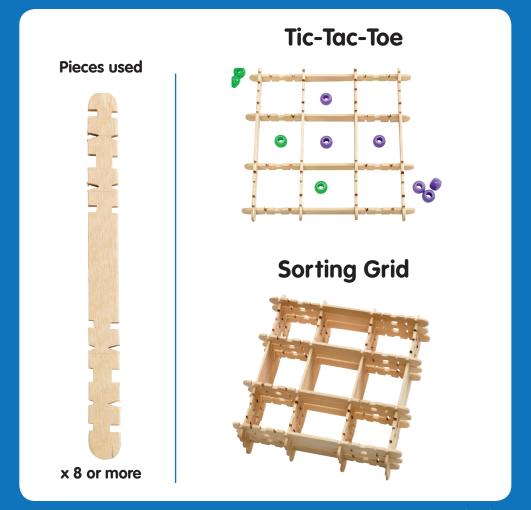
Make a rectangle by snapping the ends of two sticks so that there are 2 long and 2 short sticks.



How the sticks break:









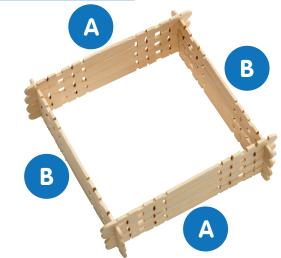
Build a Box

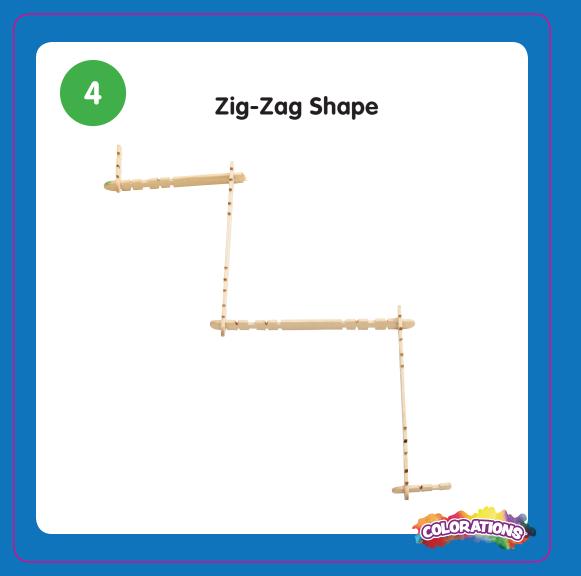
Pieces used

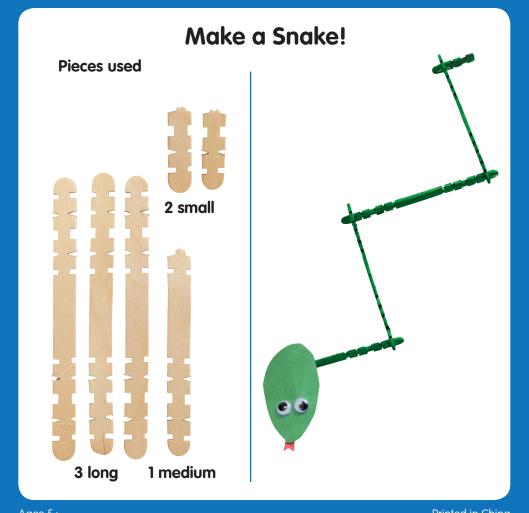




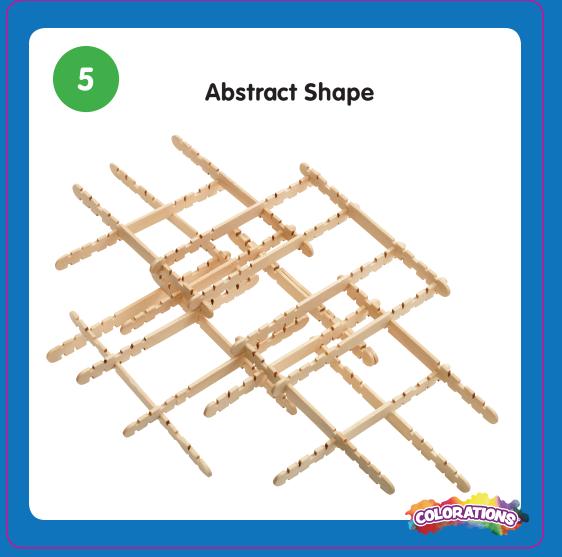
Stack sticks by adding the sticks two at a time in order.
Add the A sticks to the B sticks, then add the B sticks to the A sticks until your box is the right height.







Printed in China Ages 5+



Abstract Art Project

Pieces used

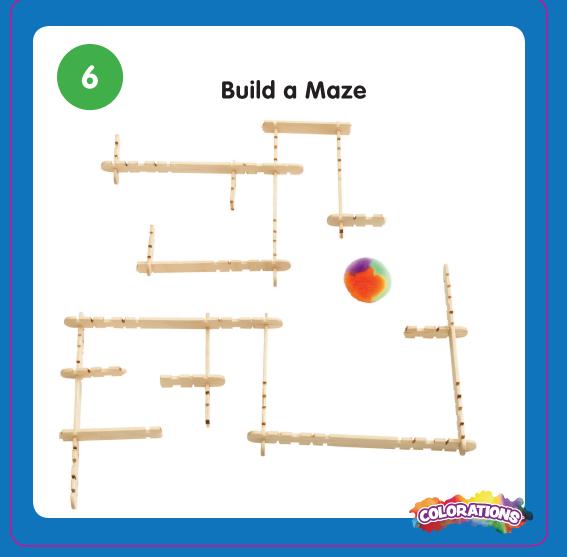


Abstract means: Unique and not based on anything with an existing specific example.

Abstract art is a great outlet for expressing feelings.

Create something that expresses your feelings! You can even paint the finished piece with paint, markers, or other decorations!

As many as you want!



Build a Maze

Pieces used



Learning Outcomes:

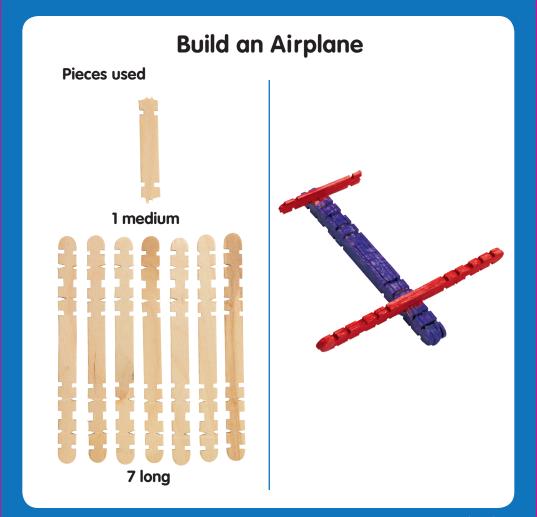
Problem Solving Fine Motor Skills Creative Thinking

Variations:

- 1. Glue the maze to the inside of a shoebox lid and use a bead to roll around and solve the maze.
- 2. Use a straw to blow a pom-pom through the maze.

As many as you want!





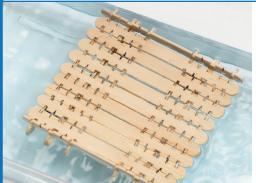


Floating Boat Challenge

Pieces used



8 long (base) 9 long (top)



Build a boat base and make it float!

To reinforce, use waterproof materials such as:

Foam pieces

Wax paper Cork

9

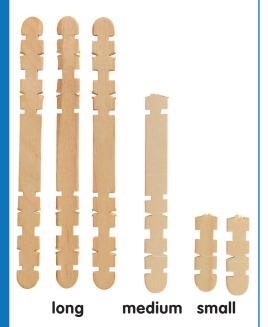
Build a Building





Build a Building

Pieces used



Who makes buildings?

Architects & engineers make the building plan.

Contractors

follow the plan and hire the people to build the structure.

Builders & constructionworkers follow the plan and build the structure.

Now it's your turn!

- Make a building plan (draw your plan)
- 2. Follow the plan and build your structure!

*number of pieces varies



Build a Bridge

Complex Project

What is a bridge? It is a structure built to allow easy travel from one place to another. Bridges are built over water, ravines, or other obstacles.

You will use all different parts of the STEM sticks for this project.

Recommended activity:

Build a bridge that will allow a toy car to drive from one pile of blocks to another.

How to build the arch seen in the photo:

