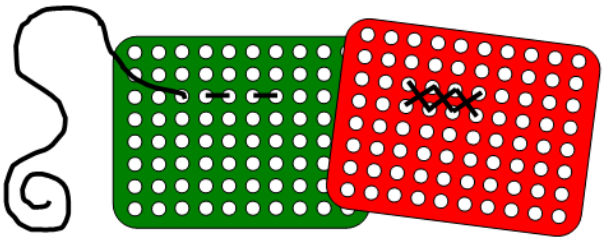
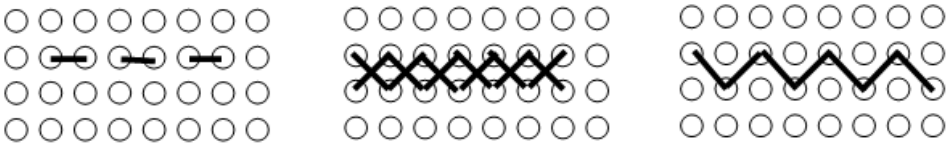
Lace It Up

Imagine the Possibilities with Sewing Cards



Enjoy practicing different patterns as you lace cord, string, or yarn through simple lacing cards.



Straight stitch **Cross stitch** **Zig-zag stitch**

Topics
Patterns, Arrays, Connecting Materials, Fine Motor Skills, Relative Positioning

Materials
- ✓Lacing cards with an array of holes, plastic or cardstock
  Printable images: https://bit.ly/4aIbwHR
- ✓Yarn, string
- ✓Masking tape or labels
- ✓Scissors
- ✓Optional: Decorations

Learning Standards
CCSS Math: Geometry, Shapes and Attributes, Measurement & Data, Simple Patterns

ECE: Shapes and Patterning, Fine Motor Skills

To Do and Notice

1. Assembly of Box Top: Cut string or yarn to 3 ft lengths. Prevent fraying by wrapping each end with masking tape to create aglets (stiff ends of shoelaces that reduce fraying and aid in insertion).
2. Choose one or more of the patterns shown above. Lace the string/yarn through one hole at an end of the card and follow chosen pattern(s) across the card.
3. Suggested options: Make shapes (triangles, stars, squares) and/or simple pictures (animals, house, flowers, etc.).
4. Label the array with numbers and/or letters. Write down the coordinate pairs for holes where the string/yarn goes in or out of the card (e.g. A2 to C3).
5. Use different string/yarn colors for more complex patterns. Try connecting multiple lacing cards together to make lace ornaments!

The Content Behind the Activity
The process of lacing in this activity helps kids practice hand-eye coordination and fine motor skills as they insert and pull cording through the holes. They develop mathematical thinking as they create shapes and follow patterns within the card array. Lacing through holes in the array that are not equidistant results in shapes that are non-symmetric, demonstrating the effect of relative positioning on the resulting lacing image. Connecting lacing cards provides larger lacing area and opportunity for making 3D models.

Visit https://raft.net for more resources!