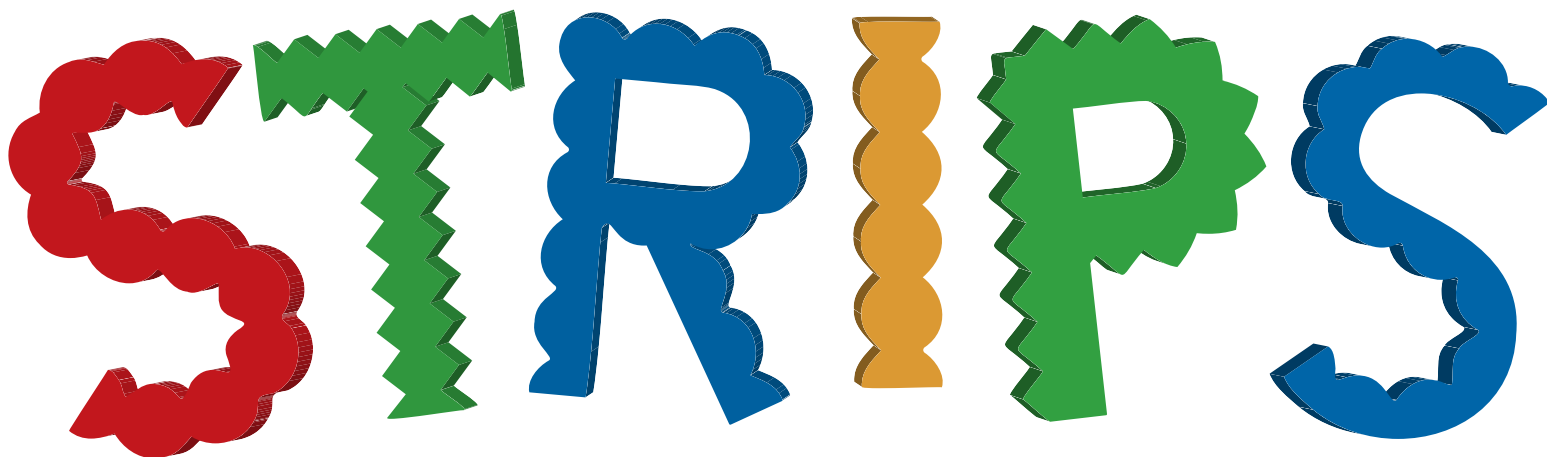
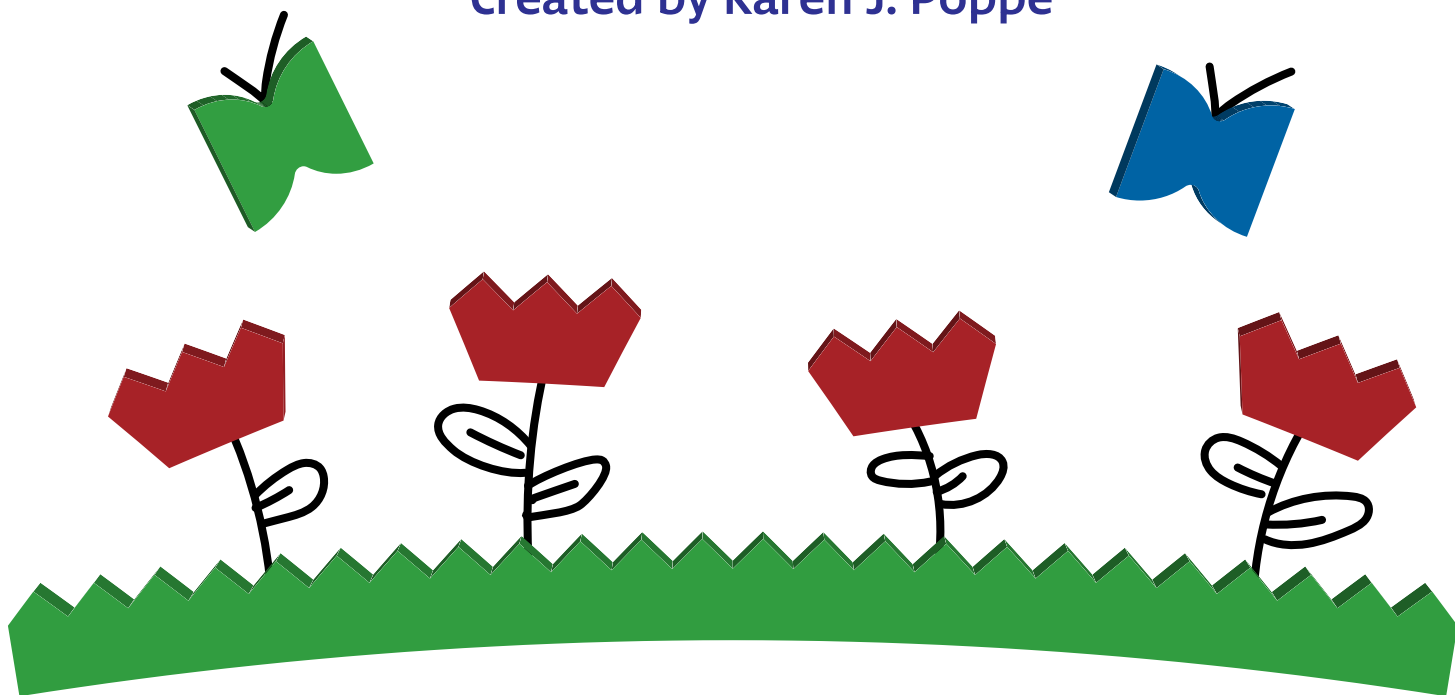


# SENSEable



## Stick-On Tactile Lines

Created by Karen J. Poppe



AMERICAN  
PRINTING  
HOUSE

Catalog No. 1-03051-00



**SENSEable STRIPS: Stick-On Tactile Lines** provides a collection of adhesive-backed tactile strips in a variety of colors and textures for the adaptation of educational and recreational materials for students and adults with visual impairments and blindness. The textured strips can be used to prepare graphs, diagrams, mazes, flowcharts, and artwork that require discriminable paths with distinct textures, borders, line types, or shapes. Some of the provided strips present a continuous row of raised circles, stars, squares, and triangles; these shapes, when cut apart as individual stickers, can be used as tactile point symbols or directional arrows. All of the strips are adhesive-backed for easy application. These tactile strips can be used by teachers of the visually impaired, orientation and mobility specialists, graphic artists, braille transcribers, and parents. Tactile readers of all ages can use the strips to mark or embellish their own graphic displays and artwork within classroom, office, and home settings.

## Types of Tactile Strips

**Line Path Strips** (translucent vinyl—clear, blue, red, green, and yellow)

Dotted (25 strips each of 5 colors)



Dashed (25 strips each of 5 colors)



Railroad (25 strips each of 5 colors)



Arrow (25 strips each of 5 colors)



## Texture Strips

Smooth (craft foam—blue, yellow, red, green; 25 each of 4 colors)



Soft (flocked styrene—blue, yellow, red; 25 each of 3 colors)



Rough (translucent vinyl—clear, blue, red, green, and yellow; 25 each of 5 colors)



Bumpy (translucent vinyl—clear, blue, red, green, and yellow; 25 each of 5 colors)



## Border Strips (craft foam colors—red, blue, green, yellow, black)

Single Saw-Toothed (20 strips each of 5 colors)



Double Saw-Toothed (20 strips each of 5 colors)



Crenellated/Notched (20 strips each of 5 colors)



Single Scalloped (20 strips each of 5 colors)



Double Scalloped (20 strips each of 5 colors)



## Shape Strips (raised shapes on white vinyl only)

Circles (20 strips)



Squares (20 strips)



Stars (20 strips)



Triangles (20 strips)



**Note:** Additional strips can be purchased based on type using the following replacement part numbers:

Line Path Strips: 61-425-001

Texture Strips: 61-425-002

Border Strips: 61-425-003

Shape Strips: 61-425-004

## General Tips

- Use the strips in combination with other collage materials to construct maps and tactile graphics.
- Maximize tactile discrimination using tactile strips of contrasting textures within a graphic display.
- Cut individual shapes from the Shape or Border strips and use them as tactile point symbols within a map or graph, or apply individual shapes for general labeling purposes.
- Gently curve the smooth foam strips to form nonlinear paths.
- Position two similar strips side-by-side to create a wider band of a desired texture.
- Use the translucent Line Path arrow strips to convey directionality within a graphic (e.g., a flowchart or food chain).
- Use the strips in combination with embossed tactile templates such as graph sheets, number lines, and clock faces.
- Use the strips in combination with a variety of substrates—cardboard, craft foam sheets, drawing film, etc.
- Apply the strips or individual pre-cut tactile shapes to a magnetic substrate and use in combination with a magnetic board.
- Plan ahead! Depending on the substrate or background material used, most of the strips are permanently attached once they are positioned within a graphic. Paper-based backgrounds are usually not conducive to the removal and reapplication of the strips.

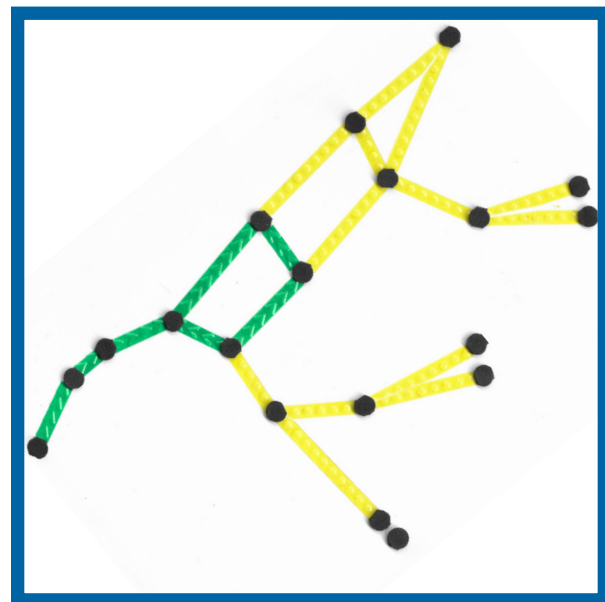
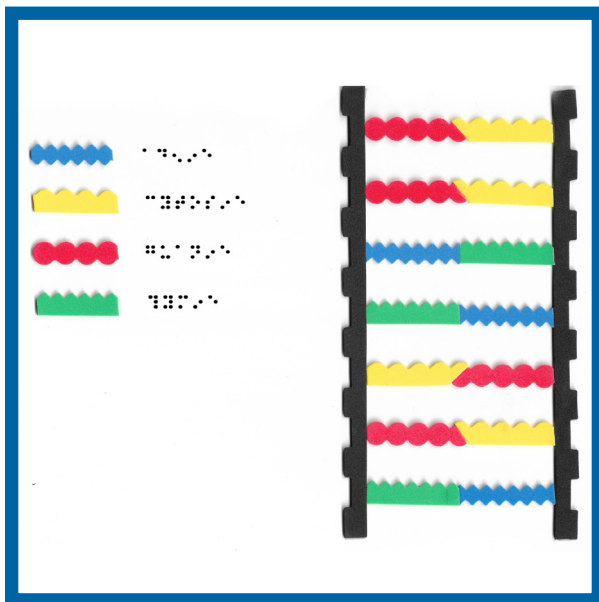
However, some substrates (e.g., craft foam, vinyl sheets) are more forgiving and allow a few repositioning attempts before the quality of the adhesive is jeopardized.

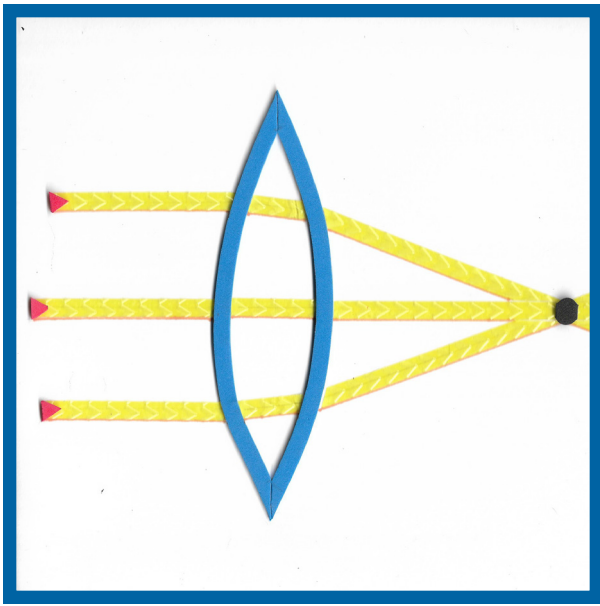
- Use a permanent marker to color the raised or incised area of individual shapes on the white Shape strips for added visual contrast.
- For easier application, remove the liner from only one end of the strip, position at its starting location within the graphic, and continue to slowly remove the liner as the strip is pressed into place. This method will prevent the strip from folding back on itself during application.

## Possible Uses and Applications

### Science Diagrams

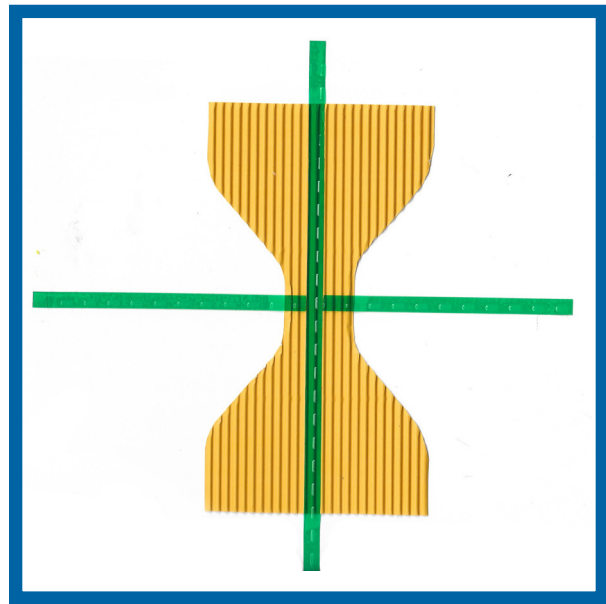
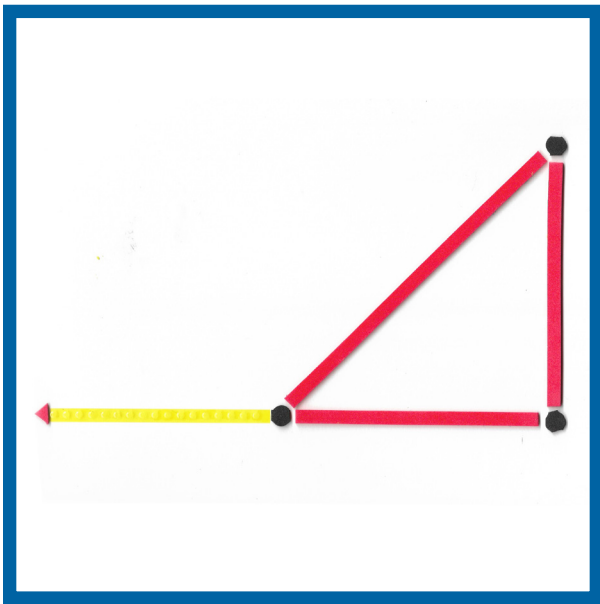
Use the strips (or cut portions of strips) to build two-dimensional displays of common science concepts, such as DNA strands, constellations, and light refraction.



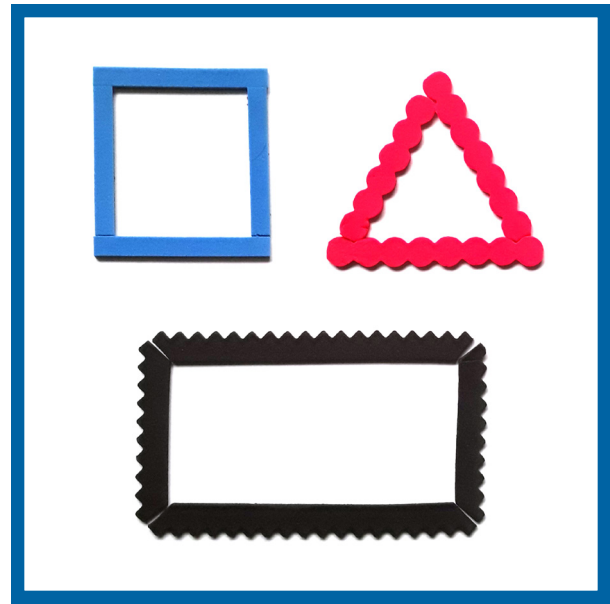
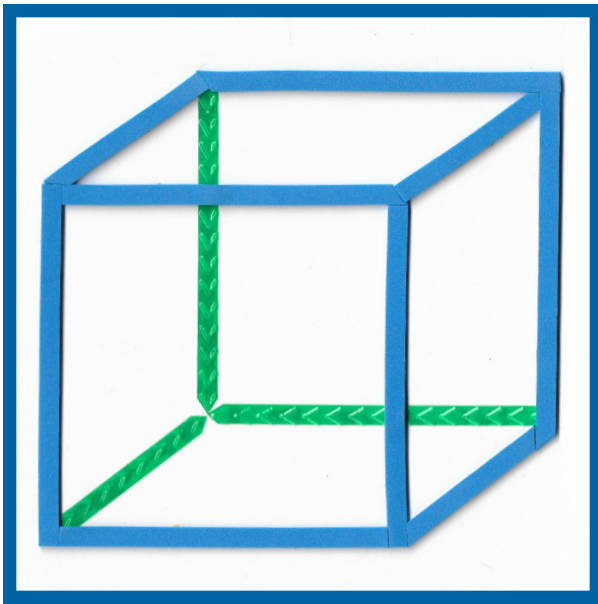


## Geometry Concepts

Use the tactile strips to convey a variety of geometry concepts such as angles, symmetry, and solids.



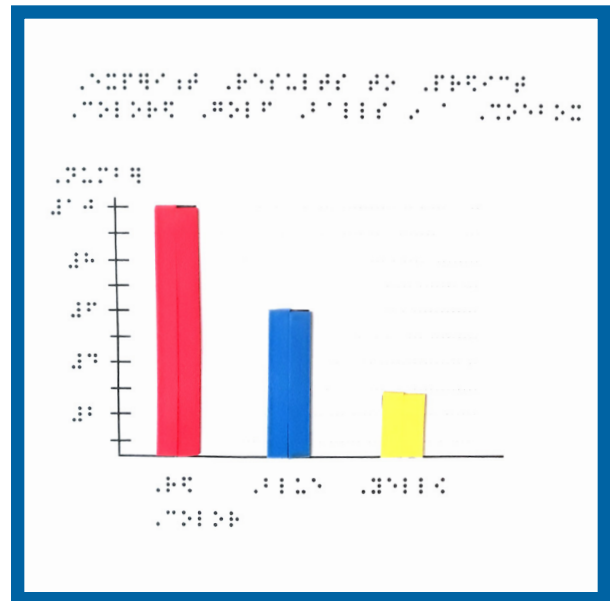
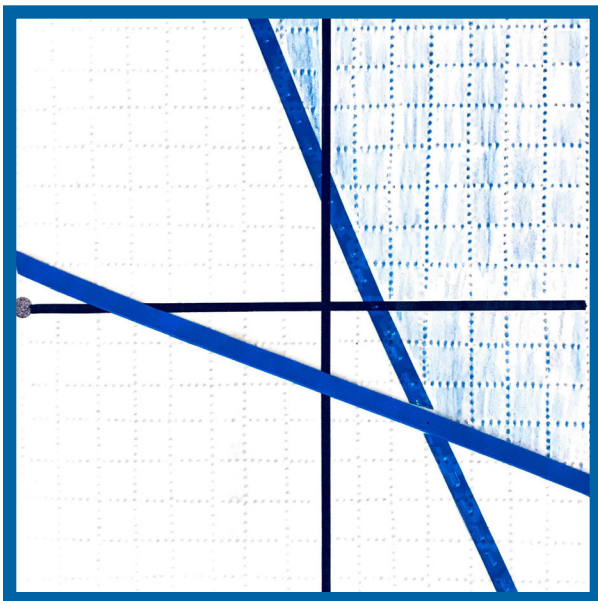




## Tactile Graphs

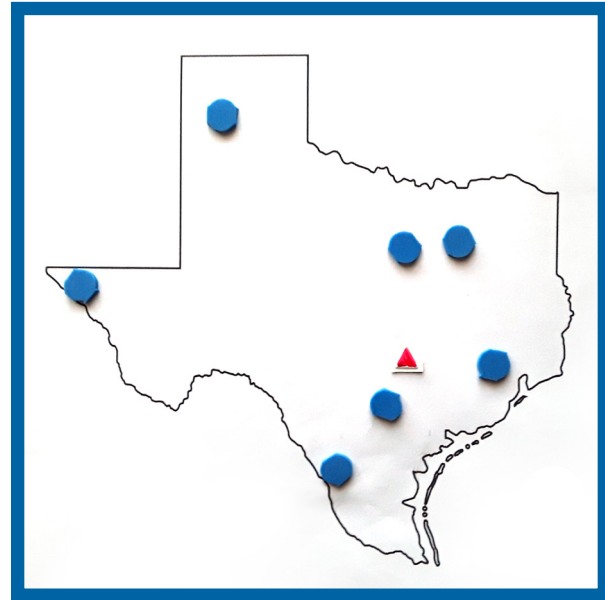
Apply tactile strips, trimmed to needed length, to embossed line graphs.

Use the textured strips to create bar graphs. Place two strips of the same texture adjacent to each other to create a wider bar, if needed.



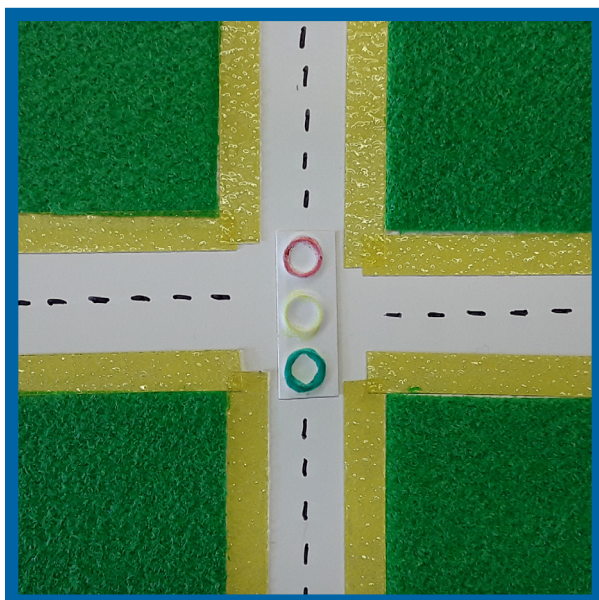
## Geographical Maps

Use tactile strips to represent major rivers or highways; cut portions of strips to make landmark symbol stickers.



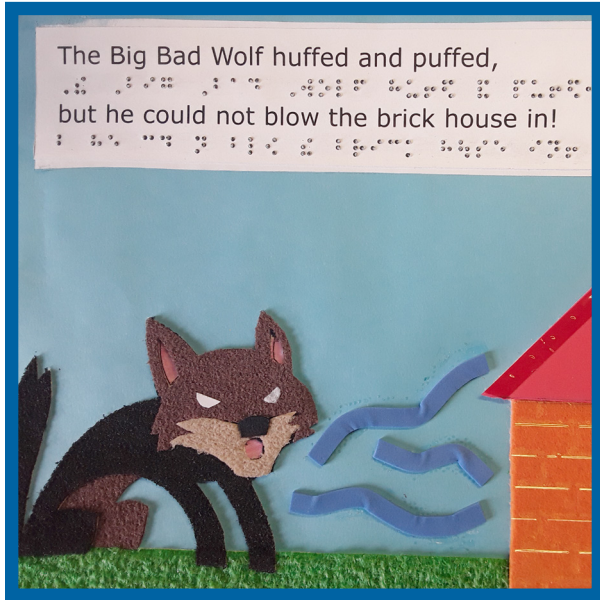
## Orientation and Mobility Maps

Use tactile strips to construct or embellish tactile maps. Use a portion of a Shape strip to represent an environmental feature (e.g., traffic light) or landmark location.



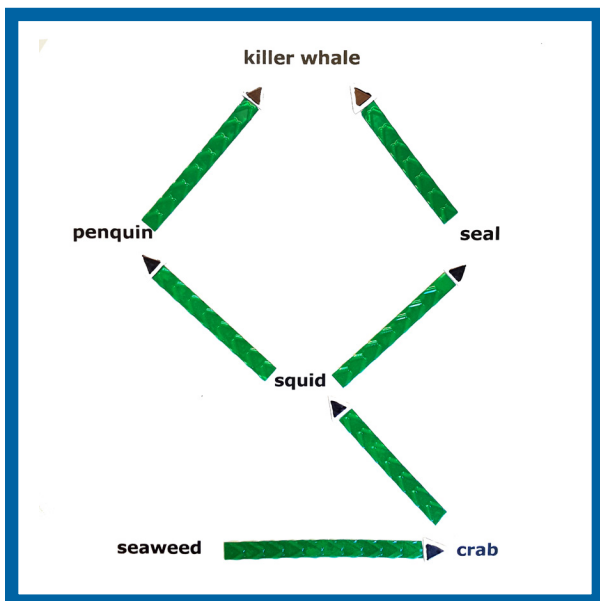
# Adapted Storybooks

Embellish and create storybook pages with any of the tactile strips.



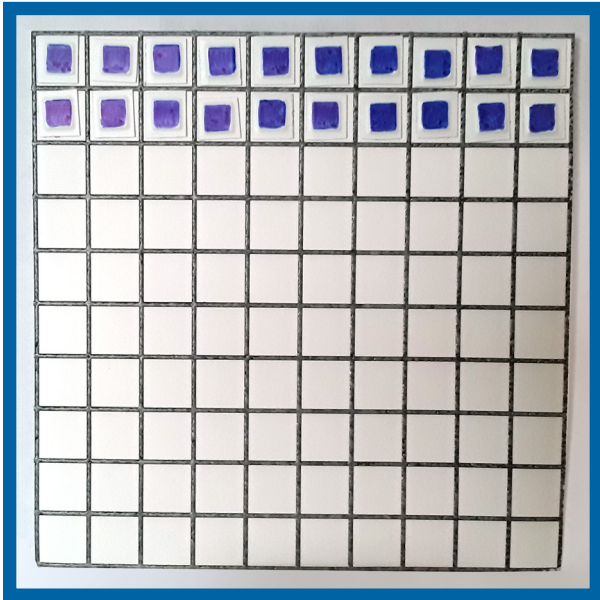
# Food Chains and Flowcharts

Use Line Path strips, especially those that convey directionality, to construct food chains, flowcharts, etc. Consider using them as lead lines that connect labels to portions of a labeled graphic.

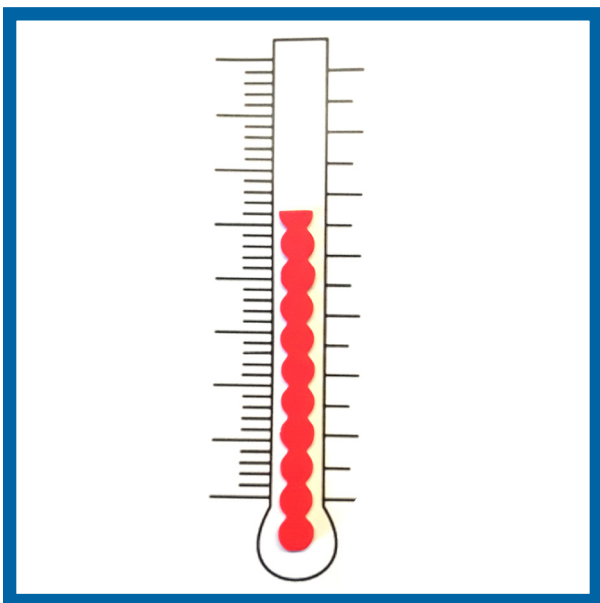


## Mathematic Tools

Use individual symbols, trimmed from the Shape strips, in combination with tactile grid/graph paper.

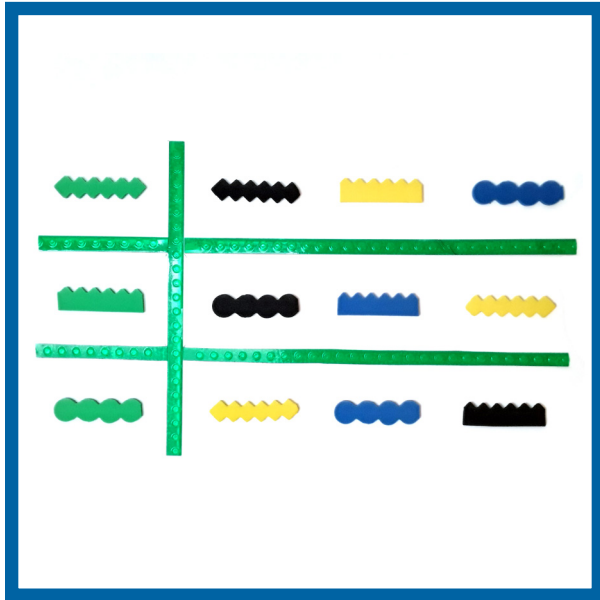


Use tactile strips in combination with tactile templates, such as an embossed thermometer to represent the mercury column.



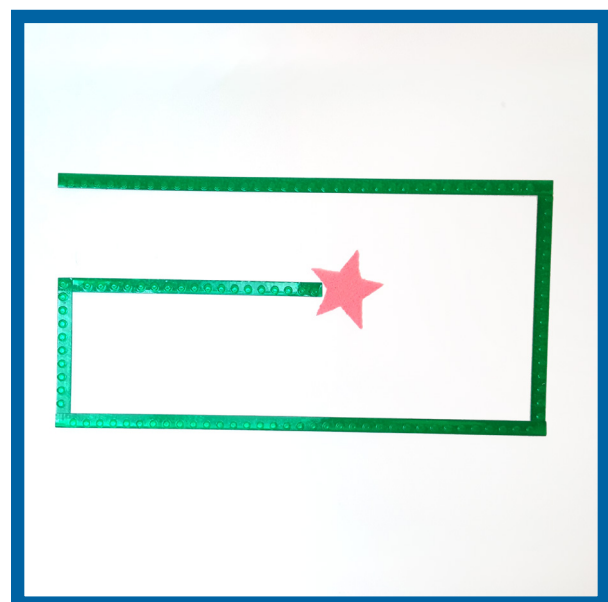
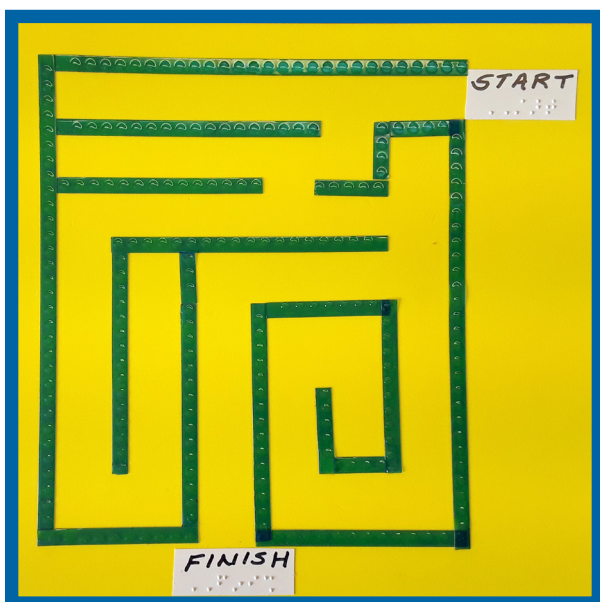
## Tactile Worksheets

Use portions of the strips to build tactile matching worksheets.



## Tactile Mazes

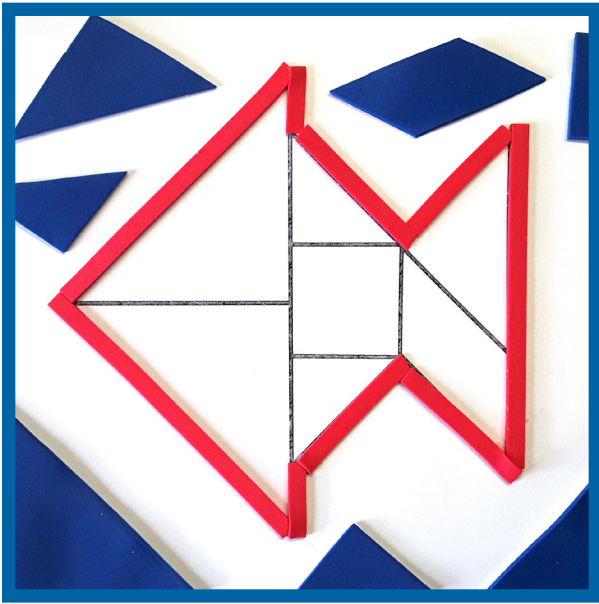
Use the tactile strips to create fun mazes. Use individual point symbols trimmed from the Shape strips to create obstacles within the maze.





## Puzzle Frames

Use the smooth foam strips to create raised puzzle frames.



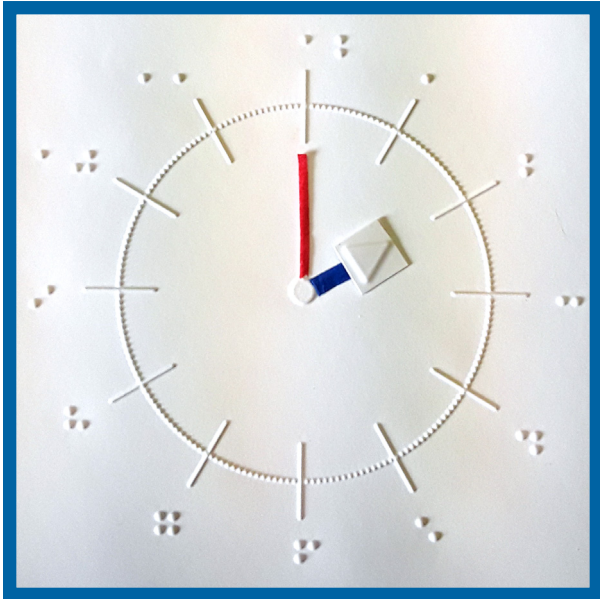
## Dividers for Charts, Spinners, and More

Use the tactile strips to create divider lines on spinners, circle graphs, game boards, etc. The extra height of the foam strips will provide discernible sections on the spinner or pie chart.



## Clock Hands

Use the tactile strips to create the hour and minute hands on a braille clockface. A single triangle trimmed from a Shape strip can serve as a pointer on the hour hand.



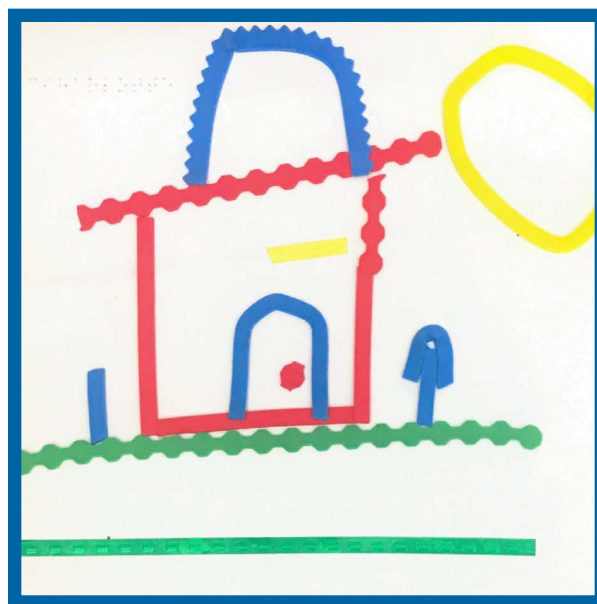
## Letters/Words

Use the tactile strips to create tactile letters. The smooth foam strips are ideal for creating curved shapes.

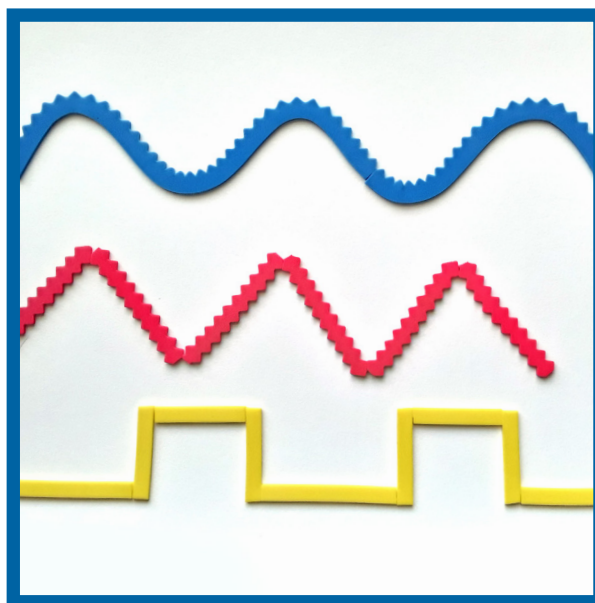


## Art Activities

Use the tactile strips to create and embellish artwork.



**Much More...You Decide!**





## Related APH Products

- Braille Paper
- Carousel of Textures I and II
- DRAFTSMAN Tactile Drawing Film
- Feel 'n Peel Stickers (assorted types including letters, numbers, and point symbols)
- Tactile Compass for Math and Art
- Tactile Graphic Line Drawing Tools
- Tactile Graphic Line Slate

## Acknowledgements

The following field testers and their students provided valuable input and creative ideas during the development of **SENSEable STRIPS: Stick-On Tactile Lines** that was formally evaluated with the tentative product name Textured Graphic Art Tape. Special thanks to Cindy Queen, Teacher of Students with Visual Impairments and Blindness, who submitted a formal product submission to encourage APH to undertake the development of this versatile kit.

**Linda Brown**, Tactile Graphic Designer/Braillist, Conroe, TX

**Joanna Credeur**, Teacher of Students with Visual Impairments and Blindness/Orientation and Mobility Specialist, Lake Charles, LA

**Candice Evans**, Teacher of Students with Visual Impairments and Blindness/Tactile Graphic Designer, Olmsted Falls, OH

**Norma Freimark**, Teacher of Students with Visual Impairments, Lantana, FL

**Kathy Gallina**, Teacher of Students with Visual Impairments and Blindness, Pueblo, CO

**Karolin Gidley**, Teacher of Students with Visual Impairments,  
Lawrenceville, GA

**Virginia Goodman**, Teacher of Students with Visual  
Impairments and Blindness/Orientation and Mobility  
Specialist, Brattleboro, VT

**Jennifer Haack**, Preschool Teacher, Grimes, IA

**Paula Justice**, Teacher of Students with Visual Impairments  
and Blindness, Greensboro, NC

**Daniel Norris**, Teacher of Students with Visual Impairments  
and Blindness/Orientation and Mobility Specialist/Vision  
Rehabilitation Therapist, Berlin, VT

**Pam Parker**, Director of Outreach/Teacher of Students with  
Visual Impairments and Blindness/Orientation and Mobility  
Specialist, Vancouver, WA

**Laura Pica**, Teacher of Students with Visual Impairments and  
Blindness, Castro Valley, CA

**Cindy Queen**, Teacher of Students with Visual Impairments  
and Blindness, Louisa, KY

**Cynthia Reilly**, Teacher of Students with Visual Impairments  
and Blindness/Orientation and Mobility Specialist/Assistive  
Technology Specialist, Medford, NY

**Sally Shreck**, Specialized Media Coordinator/APH EOT  
Assistant/Tactile Graphic Designer/Certified Braille  
Transcriber, Baltimore, MD

**Susan Sullivan**, Teacher of Students with Visual Impairments  
and Blindness, Watertown, MA

**Tamera Tillman**, Teacher of Students with Visual  
Impairments and Blindness/Orientation and Mobility  
Specialist, Woodstock, IL





# **SENSEable STRIPS: Stick-On Tactile Lines**

Catalog No. 1-03051-00

## **APH PROJECT STAFF**

*Project Leader*

Karen J. Poppe

Tactile Literacy Project Leader

*Manufacturing Specialist*

Rod Dixon

*Model/Pattern Maker*

Ben Taylor

*Research Assistant*

Bobby Fulwiler

*Graphic Designer*

Matthew Poppe

Copyright © 2021



**AMERICAN  
PRINTING  
HOUSE**

American Printing House

1839 Frankfort Avenue

Louisville, KY 40206

[info@aph.org](mailto:info@aph.org)

[www.aph.org](http://www.aph.org)