

Writing with Alternative Pencils

Make Your Own Position Coded Eye Gaze Frame

Materials and Equipment Needed

- ~10 feet of narrow 1/2"-1" Schedule 40 PVC or CPVC pipe (from Home Depot or Lowe's)
- Get the corresponding size joints:
 - o 4 ninety-degree elbow joints
 - o 2 "T" joints
 - o 2 end caps
- Hack saw or PVC pipe cutters
- Scissors
- Glue or Glue stick
- Laminate and laminator or contact paper
- · Adhesive back hook and loop Velcro

Prepare the PVC Pipe

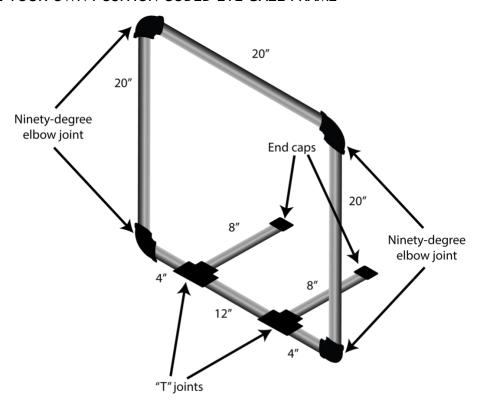
- 1. Cut pipe into following lengths:
 - 3 pieces-20" long (used for right, top and left sides of the frame) (used for the bottom of the frame)
 - 2 pieces-4" long (used for the bottom of the frame)
 - 1 piece-12" long (used for the bottom of the frame)
 - 2 pieces-8" long (used as legs to keep frame from tipping over)

Assemble the PVC Eye Gaze Frame

(An assembled frame is pictured below. Pipe is shown in gray & joints are shown in black.)

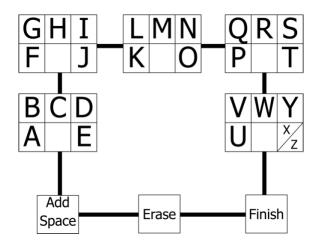
- 1. Connect the 3 20" long pieces with the ninety degree angles to create the right, top and left portions of frame.
- 2. Take the 12" long piece at attach a "T" joint to each end; then add a 4" long piece to each end.
- 3. Take above piece and connect it to the bottom of the eye gaze frame created in #1.
- 4. Insert the 8" pieces into the "T" joints.
- 5. Check for fit and glue. (Can leave bottom portion on unglued so that frame angle can fold.)

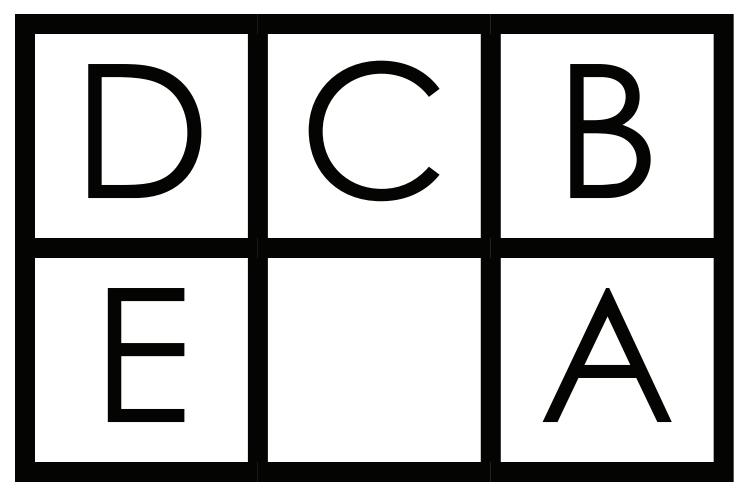




Make the Letter Groups

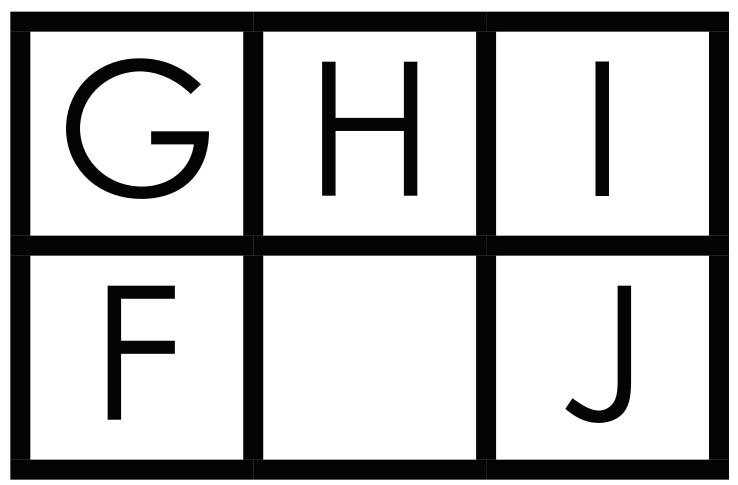
- 1. Print letter groups.
- 2. Cut out groups, and glue the corresponding groups back to back. (Can add file folder or card stock between the two for extra stability.)
- 3. Individually laminate each letter group or seal with clear contact paper.
- 4. Add a piece of adhesive back hook Velcro onto each group; place it on the side that says: "This side faces the partner." Place corresponding adhesive back loop Velcro on frame.
- 5. Attach the groups to the PVC frame as pictured below. This is what the student will see.





This side faces the partner.

D C B
E A



This side faces the partner.

J

L M N
K

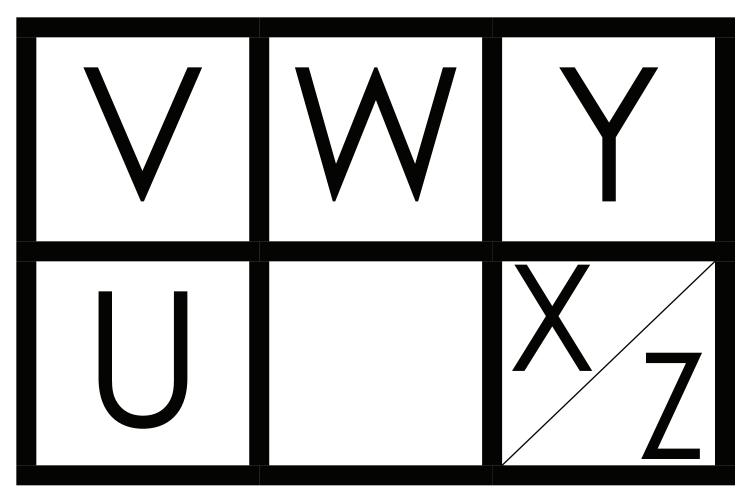
This side faces the partner.

N L
O K

Q R S
P T

This side faces the partner.

S R Q
T



This side faces the partner.

Y W V U

MAKE YOUR OWN POSITION CODED EYE GAZE FRAME

Supplemental Symbols for the Eye Gaze Frame

(Symbols from Boardmaker, www.mayer-johnson.com)

Make the Supplemental Symbols

- 1. Print supplemental symbols.
- 2. Cut out symbols. Can glue onto file folder or card stock for extra stability.
- 3. Individually laminate each symbol or seal with clear contact paper. When cutting apart, be sure to leave a ~1/4" of laminate around the edge to prevent laminate from peeling apart.
- 4. Add a piece of adhesive back hook Velcro onto backside of symbols. Can position symbols "add a space," "erase," and "finished" onto the bottom right and left corners of frame. Place corresponding adhesive back loop Velcro on frame.
- 5. Individual symbols "let's talk about this," "erase," "go to letters," and "go to numbers" can be used on a choice board or other device. A variety of colored symbols have been included to support the types of symbols being used by the student(s).



