

A word cloud shaped like a heart, featuring various terms related to STEM education and career development. The most prominent words are 'STEM', 'Experience', 'Learn', 'Network', 'Play', 'Travel', 'Write Grants', 'Collaborate', 'Observe', 'CTE', 'Shadow', and 'Learn'. The words are arranged in a way that they form the outline and fill of a heart shape.

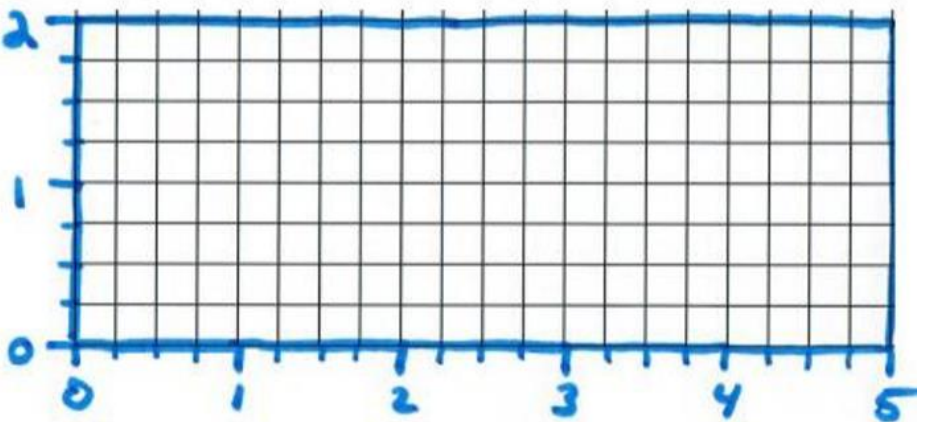
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<https://tinyurl.com/2019-STEM-Experiences>

STEM Experiences for Teachers: Building Mathematical Knowledge and Enhancing Curriculum

Practice 1 - Given the $\frac{1}{4}$ inch graph paper and blue outline of a 2 by 5 inch piece of aluminum, follow the given program to create a word which can be cut out of a piece of aluminum using a machine.



G1 X.25 Y.50
Put down your pencil
G1 X.25 Y1.5
G1 X.75 Y1.0
G1 X1.25 Y1.50
G1 X1.25 Y.50

Pick up your pencil

(What LETTER was created?)

G1 X1.50 Y.5
Put down your pencil
G1 X2.0 Y1.5
G1 X2.5 Y.5

Pick up your pencil

G1 X1.75 Y1.0
Put down your pencil
G1 X2.25 Y1.0

Pick up your pencil

(What LETTER was created?)

G1 X3.25 Y.50
Put down your pencil
G1 X3.25 Y1.5
Pick up your pencil

G1 X2.75 Y1.5
Put down your pencil

G1 X3.75 Y1.5

Pick up your pencil

(What LETTER was created?)

G1 X4.0 Y.5
Put down your pencil
G1 X4.0 Y1.5
Pick up your pencil

G1 X4.0 Y1.0
Put down your pencil

G1 X4.75 Y1.0

Pick up your pencil

G1 X4.75 Y1.5
Put down your pencil

G1 X4.75 Y.5

Pick up your pencil

(What LETTER was created?)

(What WORD was created?)