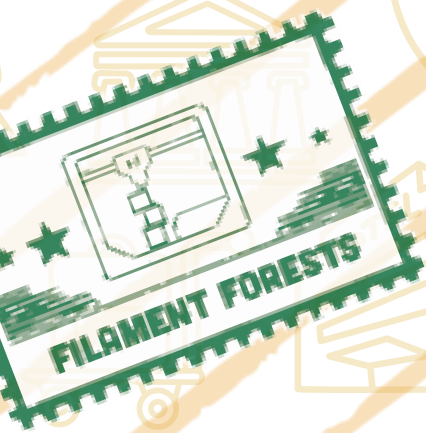


JUNIOR MAKER



Name: _____



WELCOME

SAFETY IN THE MAKERSPACE

During your visit, please remember to:



Speak in a quiet voice



Wear tennis shoes



Tie your hair back



Wear safety glasses



Clean up after yourself

YOUR MAKERSPACE TRIP





WHAT IS A MAKER?

A *maker* is anyone who turns their idea into a real thing using tools or supplies.



MAKERS IN REAL LIFE

LEVEL 1

carpenter
mechanic
baker

LEVEL 2

welder
teacher
engineer
illustrator
designer
architect

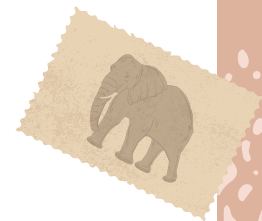
LEVEL 3

artist
student
scientist

K	W	I	G	Q	D	X	I	N	N	J	M	B	Y	E	X
J	I	C	C	A	R	P	E	N	T	E	R	A	P	N	Z
W	L	W	R	R	K	C	A	F	Q	V	M	K	P	G	M
E	L	S	W	Z	X	I	S	R	E	I	W	E	Q	I	W
L	U	O	C	J	Z	Z	N	T	T	E	N	R	A	N	Q
D	S	S	C	I	I	G	L	W	U	I	Y	V	R	E	U
E	T	W	A	I	E	P	J	D	A	D	S	R	C	E	P
R	R	V	Z	X	M	N	G	E	O	L	E	T	H	R	G
T	A	L	P	X	G	L	T	S	W	P	N	N	I	N	F
E	T	P	B	Q	F	U	P	I	B	X	D	A	T	V	I
A	O	G	U	W	C	C	J	G	S	F	S	U	E	W	Y
C	R	F	A	O	Q	C	R	N	M	T	F	X	C	H	S
H	K	K	C	K	L	Y	J	E	E	W	K	L	T	A	J
E	T	B	J	Z	V	D	Z	R	S	E	L	P	W	D	W
R	B	V	M	E	C	H	A	N	I	C	A	Y	I	B	I
F	W	Y	W	U	O	C	J	C	U	U	O	Y	K	R	N

WHAT IS A MAKERSPACE?

A *makerspace* is a fun place where you can make things! It has lots of tools to help you make cool projects.

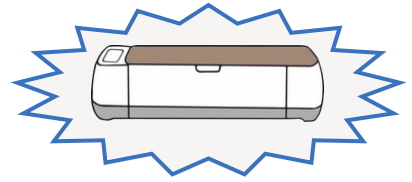


WHAT WOULD YOU PUT IN A MAKERSPACE?

Draw them here!



Next Stop: Cricut



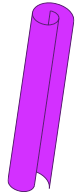
The Cricut is a tool that can cut a lot of different things like:



Paper



Fabric



Vinyl



You can make things like:

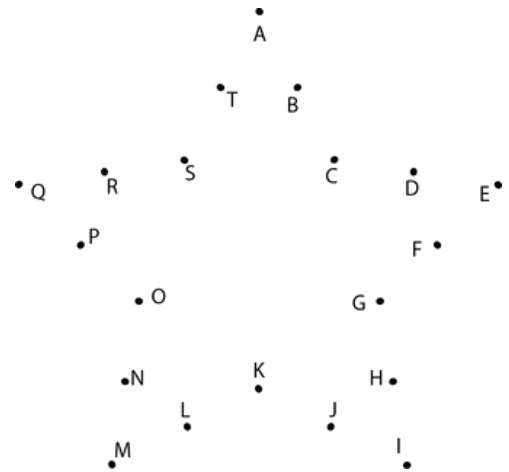
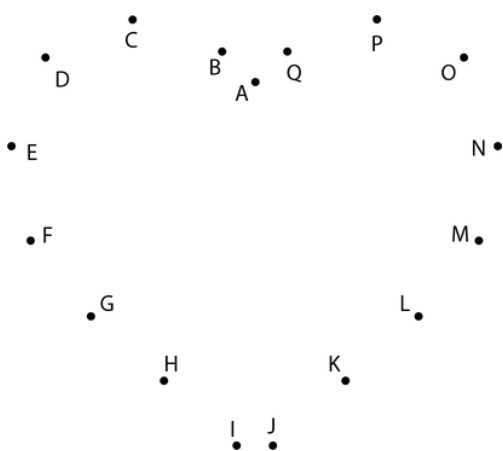


Stickers



Felt Mask

Connect the dots to finish the shapes!

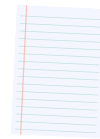


At home activity:

The Cricut uses a blade to cut things like paper and fabric.

On your separate piece of paper, trace these shapes and cut them out!

You will need:



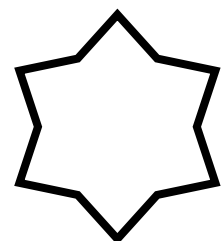
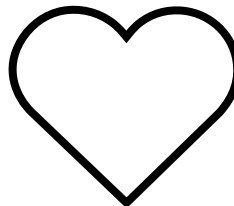
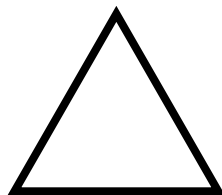
Paper



Pencil



Scissors



📍 Next Stop: Sewing



A sewing machine is a tool that helps you connect fabric and other things together using thread.

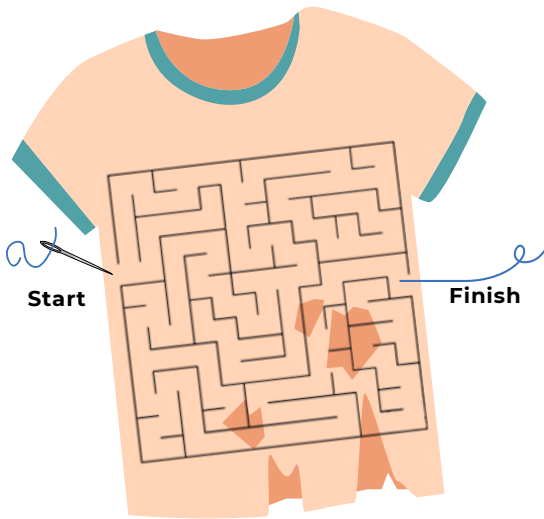
You can make things like:



Apron

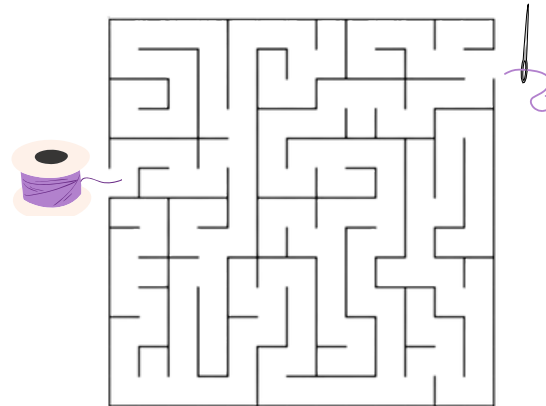


Puppets



Sew the t-shirt back together!

Can you weave the thread through the maze?

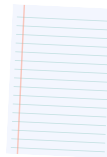


At home activity:

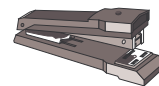
Make your own paper bag!

The paper is your fabric and the staples are your stitches.

You will need:



Paper

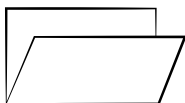


Stapler



Markers

Step 1. Fold your paper hamburger style.



Step 2. Staple the sides of your paper closed.



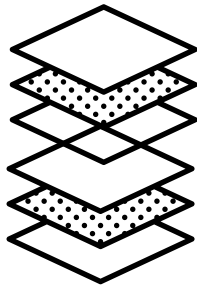
Step 3. Color and design your bag!



Destination: 3D Printing



3D printers are tools that melt plastic to build objects one layer at a time.



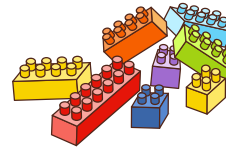
You can print things like:



Keychain



Chess Pieces



Legos

Decode the messages!

a b c d e f g h i j k l m n o p q r s t u v w x y z
 □◇△△○◇▽×ℳ▽▽▷△◇□▽▽○□◊×ℳ△◁△□

- ▷□△○○ ◇△ ▷□△○○
- ▽○◊ △○○□◊ℳ○
- △□▽○○▽▽○△○
- △□▽ℳ○▽ ℳ ○◊○
- ▽○ℳ○ℳ○ℳ○ ℳ △○○▷

At home activity:

Code your own messages using the key above and have a friend or guardian try to solve them!

You will need:



Paper



Pencil

Answer Key:

▷□□▽ □□ △○△○△○△
 PRINTING IS COOL

○×○ □□ △○△○△○△
 MAKING IS FUN

○×○△○△○ △○
 GET CREATIVE

○×○△○△○△○
 MAKESPACE

▷□□□ □□ △○△○△○△
 LAYER BY LAYER





Destination: Electronics

There are lots of electronics in a makerspace like wires, mini computers, and even tiny light bulbs! Electronics are used to make things in every day life.

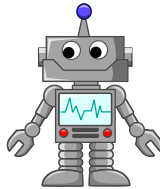


Color in the robot!

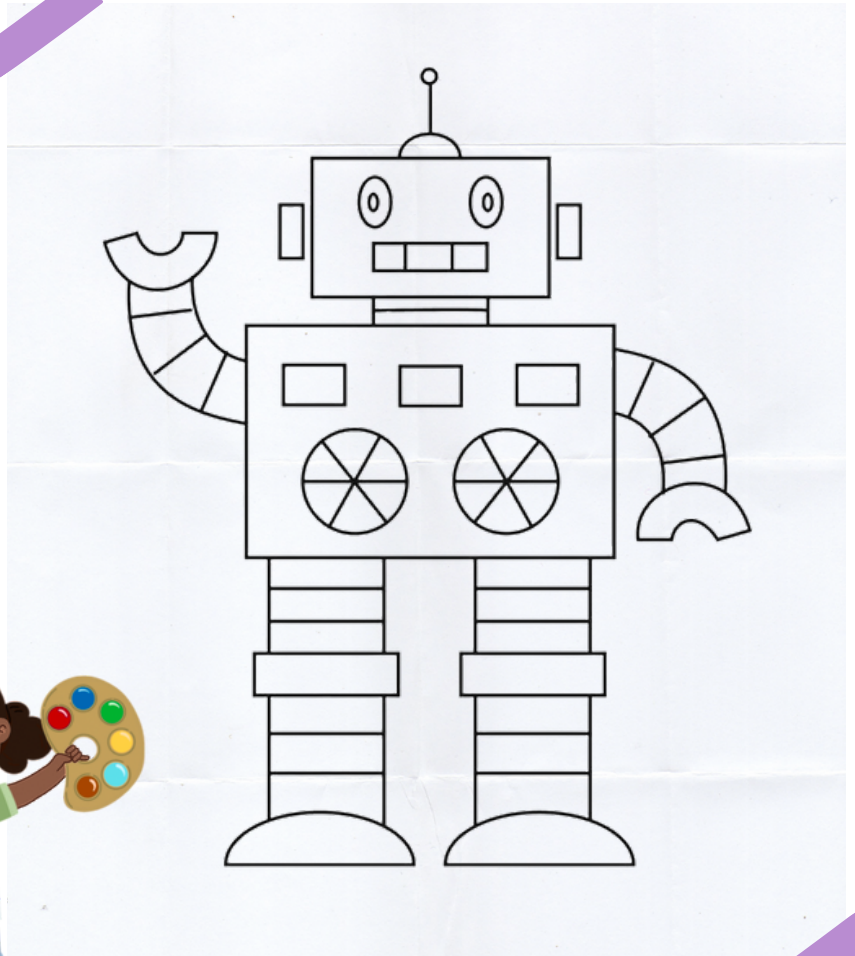
You can make things like:



Light Up Clocks



Robot



At home activity:

Make your own robot using things from around the house!

You will need:



Used bottle or can



Markers



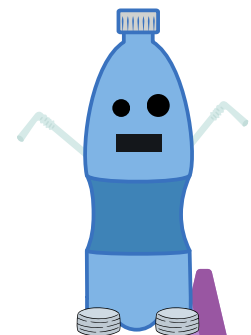
Straws



Bottle caps



Glue





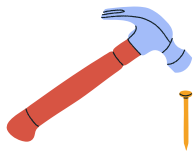
Destination: Woodshop



The woodshop has lots of tools that can cut, drill, and measure things!



You can make things like:



Hammer and Nails



Drill



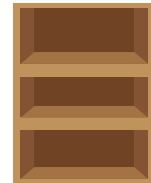
Screwdriver and Pliers



Chair



Sign



Shelf

Find five items near you that you can measure with your ruler! Write your answers below.

Example: Pencil: 6 in

_____ : _____ in

_____ : _____ in

_____ : _____ in

_____ : _____ in

_____ : _____ in

At home activity:

Find three items in your home that could be made in a woodshop (example: chairs, table).

You will need:



Pencil

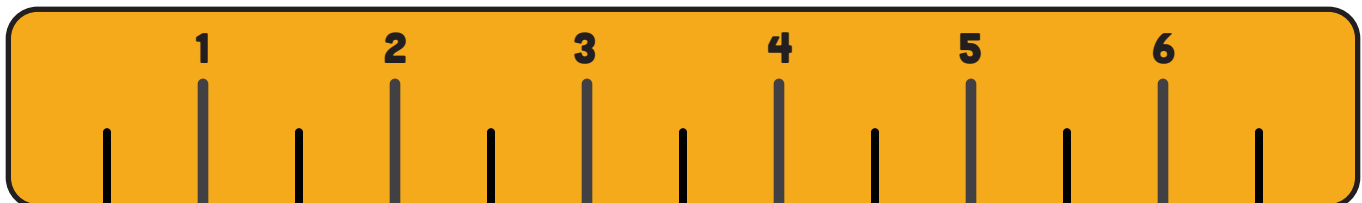
Item 1: _____

Item 2: _____

Item 3: _____



Cut here.



GREAT JOB!

You have completed this activity book!



Write one cool thing you learned.

Ask a staff member for your Junior Maker stamp.





Cut here.

JUNIOR MAKER

Name: _____

Stamp Booklet



Fold here.

