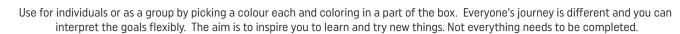
## KIDS STEAM SKILLS

## Skill Tree: Color in the boxes and level up your skills





(set your own goal)

Teach a friend

a skill from a tile you've

completed

Contribute

to a big project

Measure voltage

with a multimeter

Control an

 $\infty$ 

Make a pop-up

card

Make a simple

game in Scratch

Do an activity

in Scratch Jr.

Make a kite

that flies

Make something

with popsickle sticks

Ψ

Create something to address one of the Sustainable **Development Goals** 

Design, print and assemble something with multiple parts

(set your own goal)

eg. Robocup

Enter a STEM or

Robotics competition

Make something

using a sewing

machine

Learn a vector artwork software. eg. Illustrator, Affinity or Inkscape P

(set your own goal)

Make a robotics project

> Make a project

with a Raspberry Pi

Create an animation or stop motion video

\*\*\*\* Design and 3D print something

> Learn how to knit crochet or weave

> > Arduino or Microbit with Scratch

Make something to fix a problem

Prototype

something in cardboard

Simulate

code in TinkerCAD T I N K E R C A D

Use folding and cutting to make a paper snowflake

\*

Navigate a Beebot around at least 4

objects 

Use a mitre box

to cut timber to size



(set your own goal)

Design and 3D print something with electronics

(set your own goal)

Create a model in an engineering software Solidworks or others

Use a laser

cutter

Control a servo

motor with Arduino or Microbit

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Make a circuit that

includes a button or

switch

Make something

out of timber

Make a model

from a sketch in

TinkerCAD

T I N K E R C A D

Learn how to hand embroider or cross stitch

Use a vinyl cutter for a project

eg. Cricut, Brother Silhouette

of hand stitching

Craft a car with

wheels that move

Fix something

that's broken

Take apart some

e-waste and see

what's inside

3D print a model

from Thingiverse or

**Printables** 

Learn to edit

a photo

earn different type

Make an automata

of your own design

**Ö**\*

Learn to use

a soldering iron

Learn to plot

data on a graph

Make something with origami

Make something from upcycled

materials دک

Make a circuit that lights up an LED

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Do a wearable

tech project **₩** 

Use a sensor in

an Arduino project

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Use a green

screen in a video

Hand sew on a

button

Make something

special for a friend

Record & edit

a video

▶

Complete an

obstacle course with a

robot eg. sphero / Lego mindsorms

Make something

that moves with

Lego

Learn to use

a box cutter safely

Make a line

following robot

Create a flip blook

Control multiple LEDs with Arduino or Microbit

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Blink an LED with Arduino or

Microbit  $\infty \frac{\Omega}{\Pi}$ 

Learn to use wire strippers

Get a circuit wrong and try again

Make a circuit

with a motor

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Make something

with layers of paper

Learn to score

card with a ruler

Learn the difference between parallel and in-series circuits

a breadboard



Make a 3D object



from a net Learn to use cutting tools



safely

**START HERE** 

Name: \_



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