

WYRKSHOP MOBILE MAKERSPACE

RESPONSIBLE DECISION MAKING: 3D PRINTED FLOWERPOT



ESTIMATED TIME: >1 HOUR

LEARNING OBJECTIVES

- Explore how to work together in a group
- Inspire others to do something that would help them connect with nature
- Motivate peers to engage in collective decision making

LIFE SKILLS LEARNED:



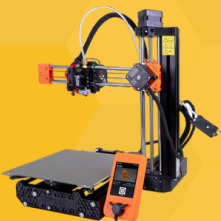
LEVEL: 2

LESSON PLAN VIDEO:

<http://youtu.be/WoZYnYD6Qi0>
or scan this



MATERIALS NEEDED:



3D Printer



Laptop with a slicer
installed

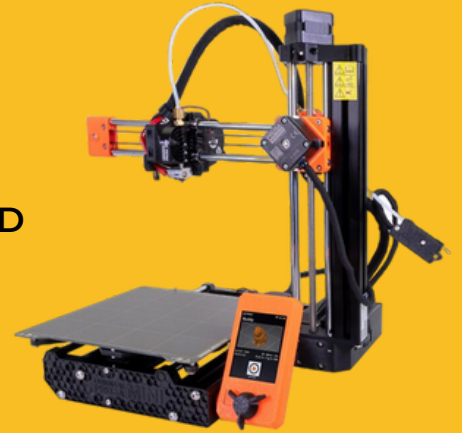


Filament for your
Machine

OUTLINE OF ACTIVITY

STEP 1:

Pair up into teams so that each team can use their own 3D printer.



STEP 2:



Search for a 3D flowerpot design on [Thingiverse.com](https://www.thingiverse.com). If you want to custom make one, you can do so in a CAD software such as Tinkercad.

STEP 3:

You might reach to a situation where you cannot agree on the final design with your group mates. How are you finalizing the design with everyone's approval?

- Advocate why your design is the best one and convince your group mates to agree with you.
- Or, reach to an agreement to print other designs in other times

STEP 4:

Once you decide on a design. Import it into the slicing software. Make sure to slice with the correct material and printer settings, not slick slice. Once that is sliced, save it to a USB or SD card. It is your responsibility to decide on who is/are going to work on the 3D printer.



STEP 5:



Now, plug the USB or SD into the 3D printer. Make a decision with your group on the color of the filament you are going to use for this. Go through the loading sequence to load your filament. Once your filament is loaded, select your design from the print menu and start printing. Make sure the print is extruding correctly and sticking to the bedplate for at least the first 10 minutes of the print before walking away.

STEP 6:

Once the design is done printing, you may remove it from the bedplate. Challenge the other members in your group to make their own design.

REFLECTION QUESTIONS!

- Where are you going to use the flowerpot?
- What did you learn from this project?
- What was the most challenging part for you throughout this process?
- How did you address your challenges?
- What did you learn from this group project?