

# OH NO, MY UKULELE IS OVERDUE!

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## FUTURE FOCUSED COLLECTIONS AND PROGRAMMING

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Sara Webster - Senior Library Assistant, Beaverton City Library  
Judith Guzman-Montes - Bilingual Makerspace Library Assistant,  
Multnomah County Library



# The Library of Things



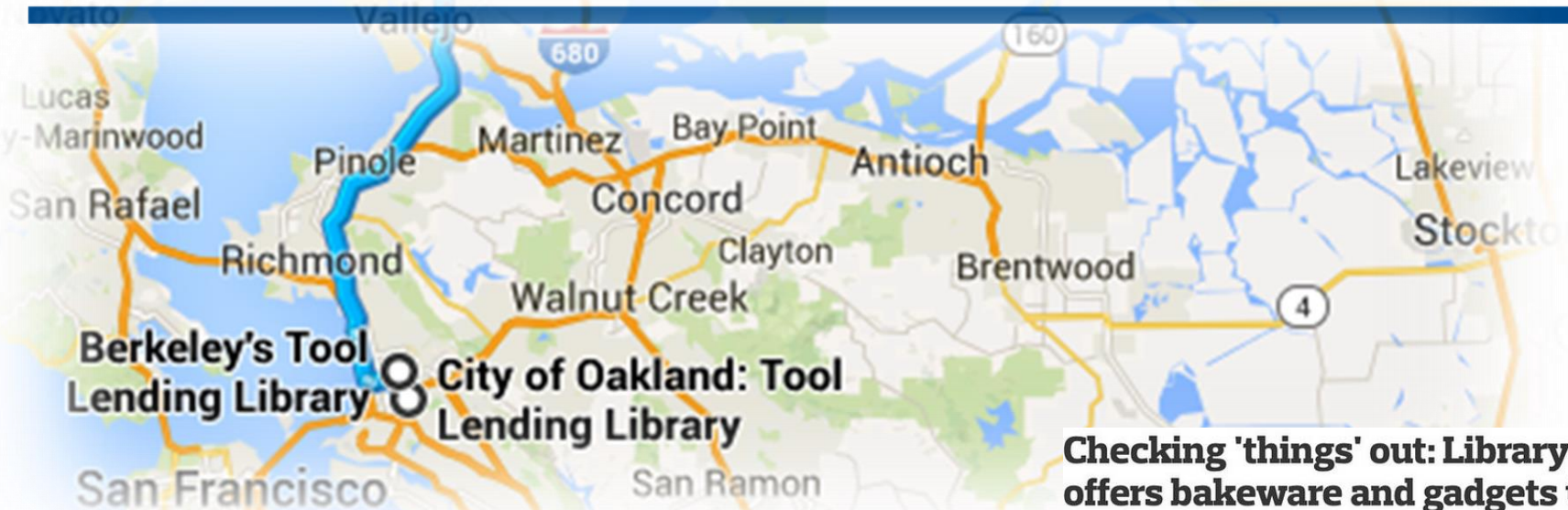
# Why a Library of Things?

- Promote lifelong learning and growth through experience
- Help create better informed consumers
- Provide the physical tools to assist people in developing a new skills and hobbies
- Allow patrons the opportunity to try, experiment, and create





# How we got started



**Checking 'things' out: Library offers bakeware and gadgets to accompany those how-to books**



# Hillsboro's collection today

Available for Checkout



Arts and Crafts



Bakeware



Board Games



Events and Parties



Home Equipment



Instruments



Kitchenware



Recreational Kits



Science and Technology



- 450+ Things – 21,815 checkouts
- 350+ board games – 16,474 checkouts



# Cataloging and processing

024 1 [735858283120](#)

024 3 [5032037064262](#)

028 53 [GALILEO1.Y](#)

035 [2304538](#)

035 [2304538](#)

245 00 [Intel Galileo kit.](#)

246 3 [Seedstudio grove starter kit plus](#)

246 3 [Grove starter kit](#)

246 3 [Intel Galileo board](#)

246 3 [Arduino board](#)

246 3 [Arduino kit](#)

246 13 [Microcontroller](#)

246 13 [Library of things](#)

246 13 [Library of Things STEM](#)

250 [CHECK OUT & RETURN TO HILLSBORO PUBLIC LIBRARY.](#)

260 [Hillsboro, OR : Intel, tc\[2015\].](#)

300 [1 microcontroller, 1 Seedstudio Grove starter kit \(1 base shield, 1 buzzer, 1 red LED, 1 green LED, 1 blue LED, 1 mini servo, 5 servo screws, 4 servo x 7 cm. + 1 USB cable + 1 USB wall charger.](#)

336 [three-dimensional form](#)

337 [unmediated](#)

338 [object](#)

500 [The Intel® Galileo board is the first in a family of Arduino-certified development and prototyping boards for educators, and DIY electronics enthusiasts.](#)

500 ["What will you make?" --box](#)

520 ["Grove is a modular electronic platform for quick prototyping. Every module has one function, such as to base shield, then you are ready to test your idea buds."--Seedstudio website.](#)

538 [Programmable through the Arduino integrated development environment \(IDE\) that is supported on Micro](#)

650 0 [Microcontrollers.](#)

650 0 [Embedded computer systems.](#)

650 0 [Arduino \(Programmable controller\)](#)

856 42 [Click here for the newest versions of the Arduino IDE <https://www.arduino.cc/en/Main/Software>](#)

856 42 [Click here for the Galileo-specific IDE <http://www.intel.com/support/galileo/sb/CS-035101.htm>](#)

901 [WCCLS20150812](#)



# Circulation, maintenance, & upkeep

- Items are both holdable and renewable
- 7 day checkout, with \$1/day late fees
- \$5 fee for kitchenware and bakeware returned dirty
- Things must be checked out and returned at their owning branch
- Returns at the front desk only



# Promoting the collection



Hillsboro Public Library

April 1 at 8:55am · 🌐

New to the Library of Things this Spring, patrons can now take home ducks. It was an obvious decision; there are hundreds living in the ponds behind the Library, and they were easy to round up with a little bread. So place your hold on one today: <http://bit.ly/1pOW6uJ>.

If yours comes in with a set of ducklings, you do have to take those too. #hillsborothings



6,284 people reached

👍 🗨️ 📌 151

21 C



Library of Things - Instruments

HillsboroLibraries

Channel settings

709 views

+ Add to Share More

👍 8 🗨️ 0



# Things to consider



- Cost and staff time spent on acquisition and processing
- Space for the collection and the holds
- How will circulation staff handle the Things
- Who is responsible for maintaining the collection
- Volunteer help

# Get in touch

Brendan Lax - [brendan.lax@hillsboro-oregon.gov](mailto:brendan.lax@hillsboro-oregon.gov)

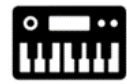
Hillsboro's Library of Things website:

<https://www.hillsboro-oregon.gov/libraryofthings>

Hillsboro's YouTube channel:

<https://www.youtube.com/user/HillsboroLibraries>





BEAVERTON CITY LIBRARY  
**LIBRARY OF THINGS**



# FROM THE BEAVERTON CITY LIBRARY PRESS

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## RELEASE:

*A natural evolution of the library's existing lending model, this collection supplements the library's approach to meeting the needs of our diverse and growing community. It supports the "sharing economy" and the city's sustainability efforts, as patrons sharing items means less waste. The collection also offers an opportunity to "try before you buy," to save money, and to test out something you might not have come across otherwise.*



# GETTING STARTED

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- Asking and informing patrons
  - Survey
  - If you're lucky, [Good Morning America](#) helps you get the word out
- Donations or budget?
  - Liability
  - What's your budget?
- Teams to research and plan
  - Things 1 (selecting) and Things 2 (circulating)

# INTO THE WEEDS

- How do we treat this collection?
  - Consistency is key
- How do we want it to circulate?
  - Staff time, patron ease
- How do we protect it?
  - Card types, item limits, fine amounts
- Who gets to do extra work to accommodate the collection needs?
  - Spoiler alert: everyone
- How do we get the word out when it's finally here? See above.





# WHAT HAS THE EXPERIENCE BEEN FOR STAFF?

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- Patrons are excited
  - More complicated verification
    - GoPro has nearly 20 components
    - C for consumable
  - Where to store?
  - Self check vs desk, supervised check in
  - Exceptions to standard circulation policy



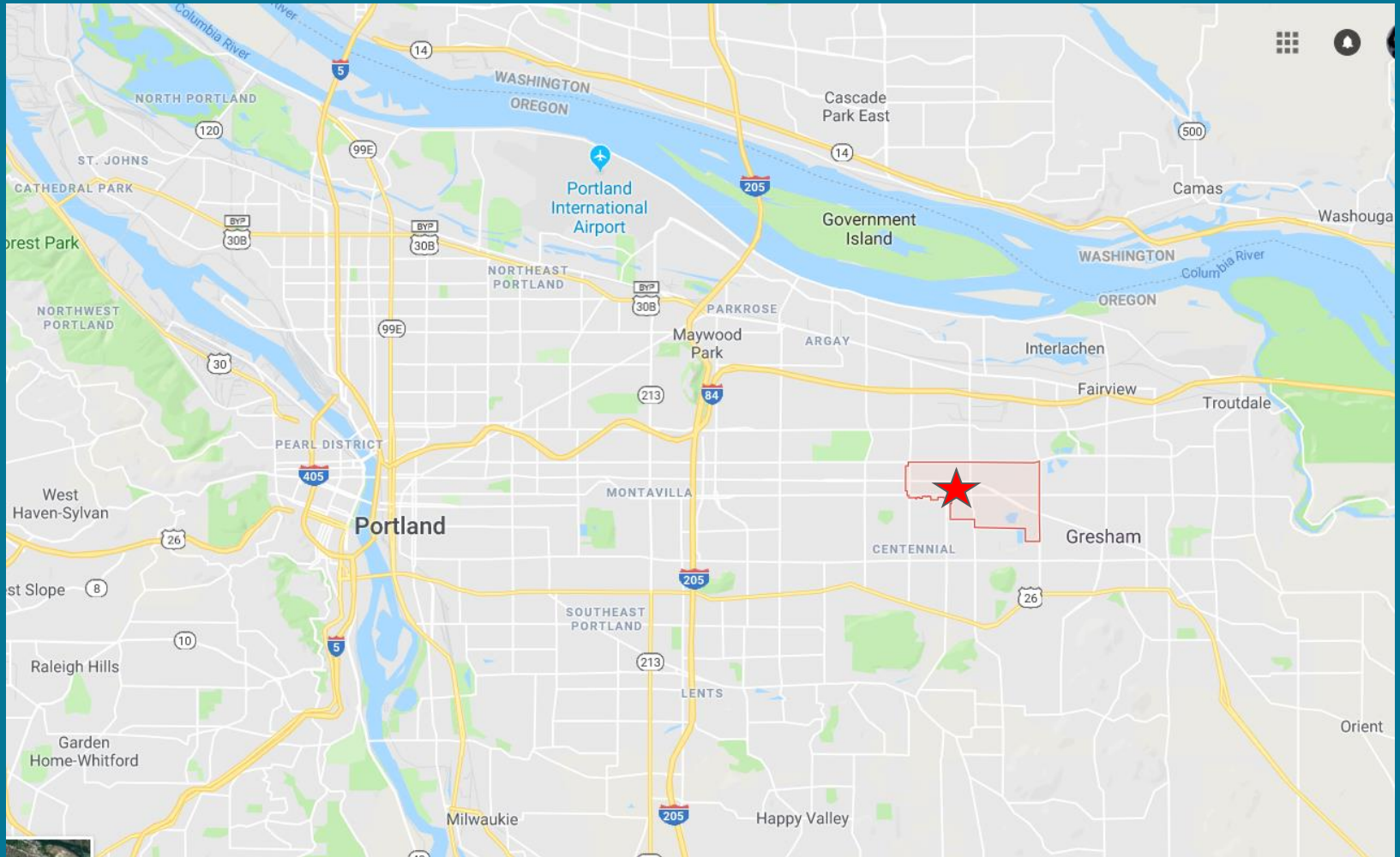
Pictured right: Before and after our LoT release

# Rockwood Library Makerspace

Judith Guzman-Montes, Bilingual  
Makerspace Library Assistant







# MAKERSPACE PROGRAMS

















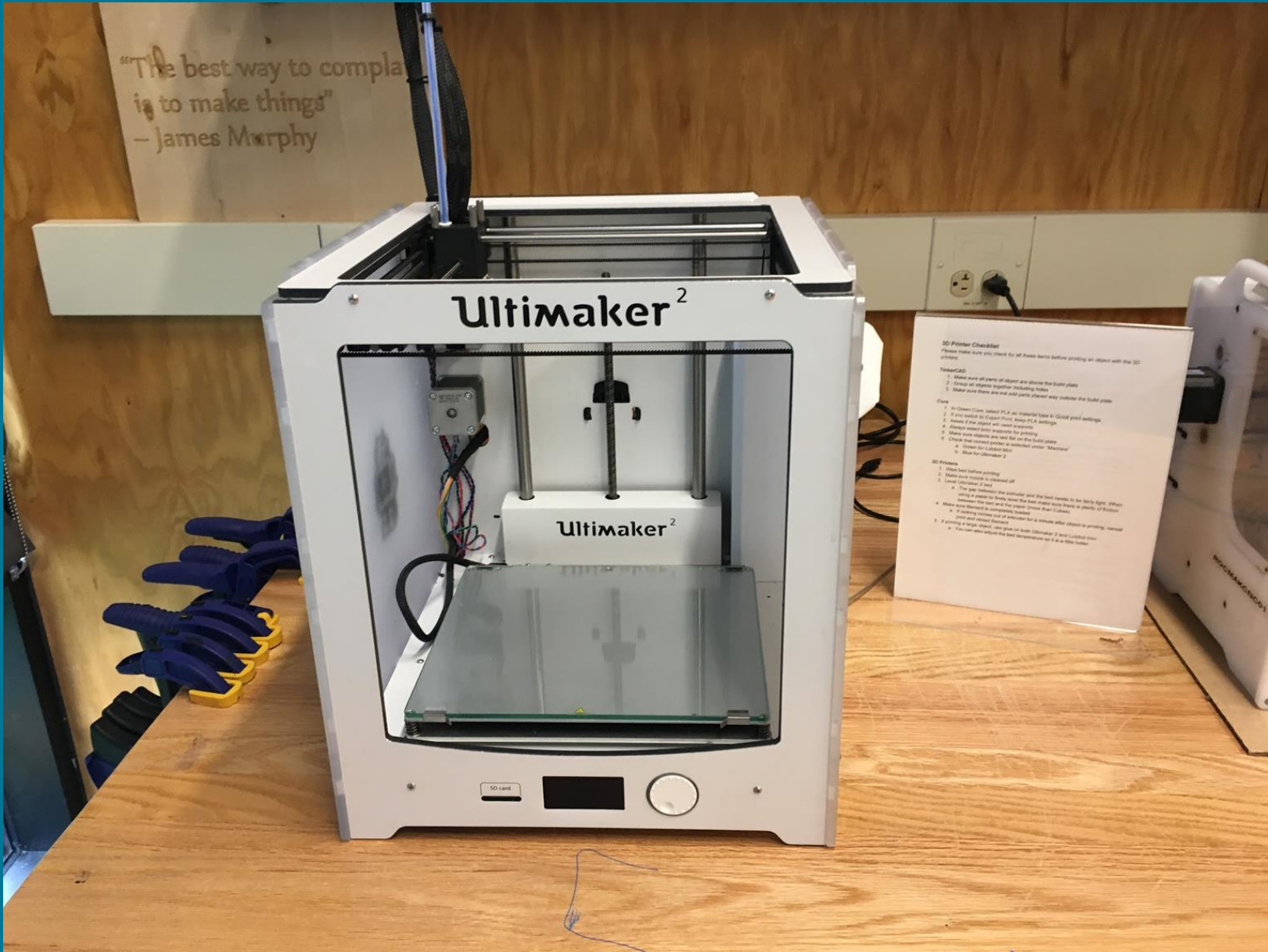












"The best way to complete  
is to make things"  
- James Murphy

Ultimaker<sup>2</sup>

Ultimaker<sup>2</sup>

**3D Printer Checklist**  
Please make sure you check for all these items before printing an object with the 3D printer.

**Before 3D**

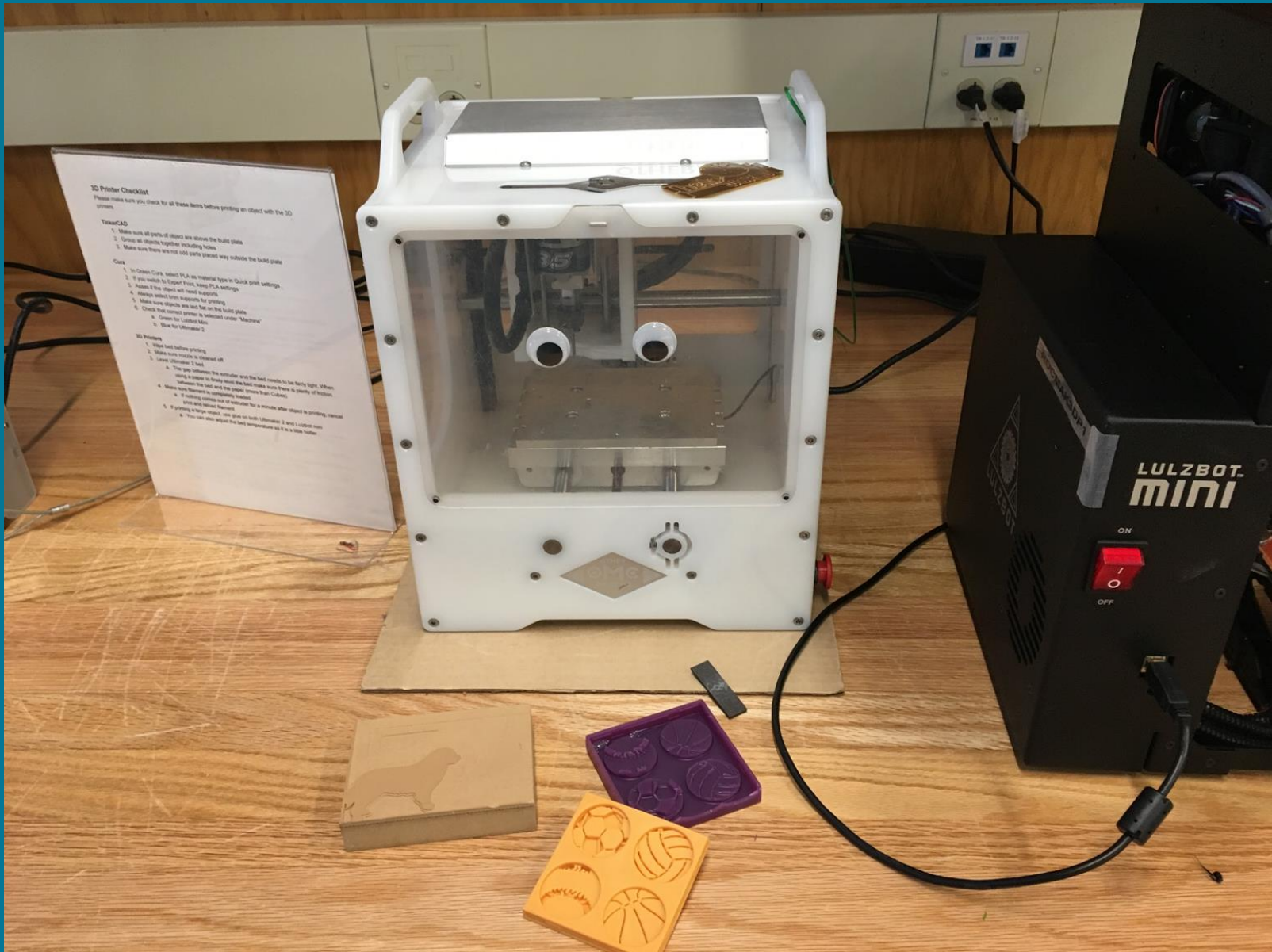
1. Make sure all parts of object are above the build plate
2. Group all objects together including holes
3. Make sure there are not odd parts placed any outside the build plate

**Check**

1. In Green Check, select PLA or material type in Quick print settings.
2. If you wish to Export Print, check PLA settings.
3. Adjust if the object will need supports.
4. Make sure there are no supports for printing.
5. Make sure object are not too far from build plate.
6. Check that correct printer is selected under "Printer".
7. Check for Ultimaker 2.

**3D Printer**

1. Have been before printing.
2. Make sure nozzle is cleaned off.
3. Load Ultimaker 2 tool.
  - a. The top of the nozzle and the extruder and the tool needs to be fairly tight. When using a piece to bring heat to the nozzle make sure there is plenty of friction between the tool and the printer (more than 1000g).
4. Make sure filament is completely loaded.
  - a. If loading several coils of extruder for a minute after object is printing, insert print and reload filament.
5. If printing a large object, use glass on both Ultimaker 2 and LulzBot ones.
  - a. You can also adjust the bed temperature to 2 in a thin layer.



### 3D Printer Checklist

Please make sure you check for all these items before printing an object with the 3D printer.

#### ThingCAD

1. Make sure all parts of object are above the build plate
2. Group all objects together including holes
3. Make sure there are not odd parts placed way outside the build plate

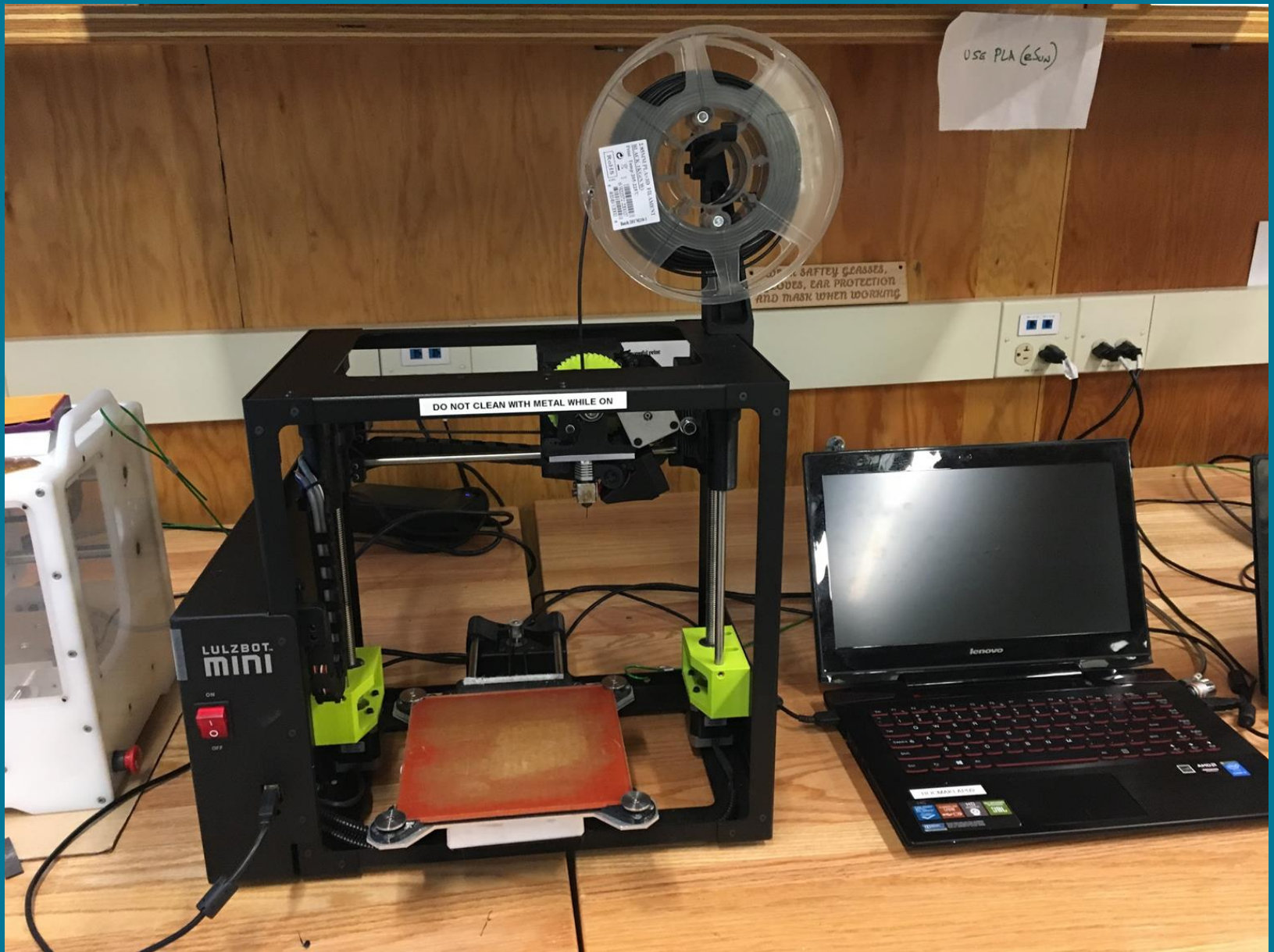
#### Case

1. In Green Case, select PLA as material type in Quick print settings
2. If you switch to Expert Print, keep PLA settings
3. Assess if the object will need supports
4. Always select hole supports for printing
5. Make sure objects are not flat on the build plate
6. Check that correct printer is selected under 'Machine'
  - a. Green for LulzBot Mini
  - b. Blue for Ultimaker 2

#### 3D Printer

1. Slide bed before printing
2. Make sure nozzle is cleaned off
3. Level Ultimaker 2 bed
  - a. The gap between the extruder and the bed needs to be fairly tight. When using a glass or shiny metal the bed needs more force to pry it from.
4. Make sure filament is completely heated
  - a. If extruder is completely heated
  - b. If printing longer object, use give on both Ultimaker 2 and LulzBot mini
  - c. You can also adjust the bed temperature up to 500C better.

















**QUESTIONS?**