FOCUS GMU 2015 DR. EVELYN SANDER

Designing a 3D object

Objective

Your goal is to design a tile for printing on a 3D printer

Procedures

- Start Firefox
- 2. Sign into tinkercad.com (You can create a free account)
- **3.** Create a tile template as follows:
 - Create a Box 60 x 60 x 3 (everything is measured in mm) and hit Lock Transformation
 - Create a Box Hole 80x80x20 which is 20 mm below height zero. Lock Transformation
- **4.** Start by finding a theme. Suggestions:
 - Castles/Houses
 - Cityscapes
 - Terrain
 - Abstract/Pattern
 - Flag
- **5.** Guidelines:
 - Make sure to take turns on who has the mouse!
 - The maximum height is 20 mm
 - Do not go off the sides of the Tile Box
 - Make sure all parts that you add are attached to the Tile Box
 - It will be printed in a single color
- **6.** Finishing your tile:
 - Select the Tile Box, and select "Unlock transformation"
 - Select the Floor Hole, and select "Unlock transformation"
 - Select all with your mouse and push the button Group
 - Save changes
- **7.** Save for 3D printing in STL format and print.