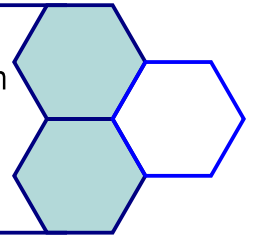


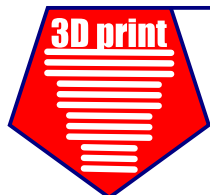
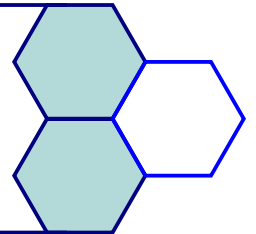
Find in the 4 locations where you'll have to solve the challenges and use the instructions below here to do the correct manipulations !  
 For each challenge you'll reveal 2 LETTERS, you'll have to use those 2 letters with the grid on the other side of this paper to find the right symbol. Once all 4 symbols are found, you can go back to where you started and attempt to open the box !  
 Make sure you note all the letters and symbols you find at each challenge, as shown in the example.  
 There is no specific order in which to solve the 4 missions.



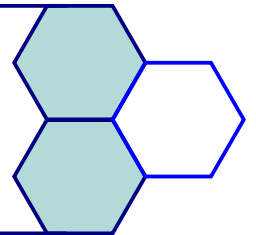
The Lasercutter uses a focused lightbeam to burn materials, the same way you can burn something using a magnifier and the Sun ! This machine has 2 main settings : the **power** of the laser beam and the **speed** at which it will move. The more powerful, the more it burns and the slower it moves, the more it burns as well !  
 It's important for each material to use the right settings. We want to make an object made of **CORK**  
 Set the machine correctly to reveal two letters !



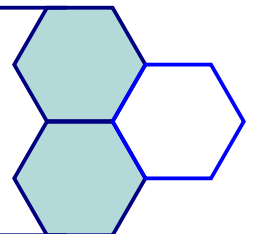
The CNC milling machine uses a drill to engrave and cut through materials. It also has another specificity compared to the Lasercutter : it has 3 axis ! What does it mean ? The Lasercut moves in 2 dimensions but the CNC moves in 3 dimensions, which means that it can also make volumes and depths !  
 X and Y are 2 dimensional coordinates. Z is the height/depth coordinate.  
 Look at the following coordinates and measure the **values of Z** : (X=1;Y=7) and (X=9;Y=5)



Nowadays, it's incredible to see the variety of things we can make with a 3D printer !  
 Did you know that the most commonly used material for printing named PLA it comes from corn ?  
 PETG is the same plastic as bottles, and some printers can even print chocolate and ceramic !  
 For our project, we want to 3D print some **Legos**, which material would we need ?  
 Chose the **right material** and the **right temperature** to reveal two letters !



For our electronics project, we would like to build a basic circuits to turn on a light !  
 For that, we need the right components, each of them playin a crucial role in the circuit :  
 The power source is made of **THREE 1,5v batteries** ; we want to light up a **Light Emmiting Diode (or LED)** ;  
 to protect the LED we need a **RESISTOR**, and we will use a **SWITCH** to activate our circuit !  
 Once they are all set, you'll see an interesting information !



**WARNING ! Please after finishing a challenge, don't leave the answer visible so the next ones can also play it !**

This project is OpenSource, non commercial use only, *creative common licence CC BY-NC-SA*  
 You can find the Instructable under the following name : *Fablab's Quest : an Open Field Escape Game About Fablab Machines*