PANDORA BOX

The Key to Pandora — Kids version

Intro

Hey Maker,

Excited to print with dough? With the Pandora Box, you can print fun objects to play with, and it's super easy! Follow this guide and have fun printing!

Best,

Pandora box team

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To remember

▶ Structure set-up

In case a part of the structure breaks gets lost or needs to be reassembled, check out the full guide on how to set up the Pandora Box structure. But remember, the syringe extruder is an add-on, so it is not included in the instructions. 🔗

▶ Don't eat the dough

Even so our dough is not made of toxic materials we do not recommend eating it. Dough is to play and not to eat!

▶ Close the door to print

Your object will not start printing until the door is closed, but if you open the door after you started printing, your design will not turn out the way you want it. So only open the door when your print is over or when you have to change the dough.

How to make the dough

▶ Ingredients

- 2 cups of flour

- 1 cup of water

- 1 cup of salt

- A few drops of food coloring (If you want it to be colorful!! But you don't need to.)

▶ Steps

1. Pour the flour and salt into a bowl
2. Add the drops of food coloring to the water (if you want colorful dough)
3. Pour the water into the bowl
4. Mix the ingredients until you can hold the mix without it sticking to your hands

If your dough is too sticky… add more flour
If your dough is too dry or hard… add more water
If you have a different problem ask your teacher or parent for help!

▶ Setting up the dough

After your dough is ready, ask an adult to help you…

1. Remove the syringe

2. Fill the body of the syringe with your dough

3. Put it back

(Do this as shown in this video)

How to start a print

▶ Steps

Is everything ready? Now you can print if you follow the steps in this video!

1. Turn on the printer by switching on the power button as shown in the video
2. Open this link on a phone, computer or iPad 🔗
3. Press the three dashes on the top left of the device's screen
4. Scroll down until you find an object you want to print
5. Press the object to select it
6. Press the picture of the printer next to it
7. Remember to close the door before starting!
8. Have fun printing!!!

Your own design

▶ How to make your own design

1. On a computer, open Tinkercad 🔗
2. On the right corner click Sign Up or Login, depending on if you already have an account or not
3. Follow the instructions suggested by the website to complete your Sign Up or Login
4. When you are logged in to your account, select the button "Create new design".
5. Follow this tutorial up to minute 2:50 and have fun designing! 🔗

▶ How to save your design

1. When you finish your design, click export on the upper right corner
2. Select the option "Everything in the design"
3. Select .STL (circled in the image below)
4. Done! Now your design is saved to your device

▶ Steps to print

1. Turn on the printer by switching on the power button as shown in the video
2. Go to this link! 🔗
3. Press the three dashes on the top left
4. Scroll all the way down and press upload
5. Press Browse
6. Choose your design
7. Click Select Slicer and choose CuraEngine Legacy
8. Click Slice
9. Remember to close the door before starting!
10. Have fun printing!!!

If you run out of dough

▶ **Before the printing**

Oh no, did you run out of clay?

Here are the steps you need to take (with your teacher or parents help):

1. Open this link 🔗
2. Click on the Controller Button (second button from left to right at the top)
3. Scroll to the bottom and press the reload button.
4. Wait for the syringe to stop moving.
5. Ask an adult to help you hold the motor in place, twist the syringe and slowly pull it down.
6. Fill the syringe with dough.
7. Put the syringe back and close the door. If you see a small red light shining near the knob, that means you did it right!

▶ **During the printing**

Run out of clay in the middle of printing?

1. Open this link 🔗
2. Press the pause button (it looks like this: ||) and wait for the extruder to stop moving
3. Press the reload button at the bottom of the page
4. Open the door
5. Carefully turn the syringe, pull it down, and fill it with dough
6. Put the syringe back, and you can continue printing!

If you have any issues, call a teacher or your parents to help!

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