

Hi Student! Welcome to Westview 3D Printing Club's Curriculum for Project Voyage.

Through our 7 chapters, we will teach and give you the skills and knowledge necessary to create any 3D printed object! As your teacher has instructed you, you will be responsible for finishing one chapter per week. Each chapter page will look similar to this with a video and slideshow, followed by a couple of assignments and a small project at the end.

Without further ado, jump right into...

Chapter 5: Fundamental Processes

1. Take notes on the videos. We highly encourage watching the video as our exec board has given commentary and additional information over the slides.
 - a. Sorry! No video for this chapter!
2. For later reference, here are the slides for this section
 - a. [Fundamental Processes](#)
3. Assignment #1: Write 2-3 sentences on why changing the filament in a printer can be useful. Research printers with multiple extruders and write 2-3 sentences on why multiple extruders are useful.
4. Assignment #2: Worksheet (the steps for adjusting heat bed and changing filament)
 - a. [Link to worksheet](#)
5. Assignment #3: Research ways on how a 3D printer could jam or fail a print, and give solutions to each of the problems
 - a. Print comes off the plate mid-print
 - b. Filament not extruding
 - c. Spaghetti print
 - d. Corner of print peeling while on the plate
 - e. Printer starts prints in air
6. Final Project: Write a detailed summary of the 3D Printing Process and include the fundamental processes where you see fit. Should be close to one page.