Printer Components worksheet:

1. Identify if your printer is Cartesian or Delta printer; explain how each coordinate system works.
☐ Identify
☐ Explain Cartesian
☐ Explain Delta

2. If cartesian, identify X, Y, Z axis of the printer.
☐ Identify

3. Explain how these printer systems work by narrating a picture or a video:
☐ CoreXYZ
☐ Polar
☐ Scara

4. Identify on your printer:
☐ Stepper motors
☐ Timing belts
☐ Threaded rods
☐ Glass plate (or the type of bed material on your printer)
☐ Bed heater
☐ Electronics box
☐ Endstops
☐ Extruder assembly, including:
☐ Hot end
☐ Fans
☐ Thermistors
☐ Levelling sensor

5. Explain what each component in Q3 does.
☐ Stepper motors
☐ Timing belts
☐ Threaded rods
☐ Glass plate (or the type of bed material on your printer)
☐ Bed heater
☐ Electronics box
☐ Endstops
☐ Extruder assembly, including:
☐ Hot end
☐ Fans
☐ Thermistors
☐ Levelling sensor

6. Load the sample model found in this workshop's folder into Cura. Slice it according to the printer's settings and name it WorkshopSample.gcode and print it. While it's printing, explain the process of how the printer works, from start to finish. Point to specific components while explaining. Mention all of the components in Q3 at least once. Don't just give a basic overview (a lot more detail than Basic Printing/Slicing workshop). Feel free to run the print multiple times if things move too fast for you to catch how the components are working together.
☐ Stepper motors
☐ Timing belts
☐ Threaded rods
☐ Glass plate (or the type of bed material on your printer)
☐ Bed heater
☐ Electronics box
☐ Endstops
☐ Extruder assembly, including:
☐ Hot end
☐ Fans
☐ Thermistors
☐ Levelling sensor
☐ Complete explanation