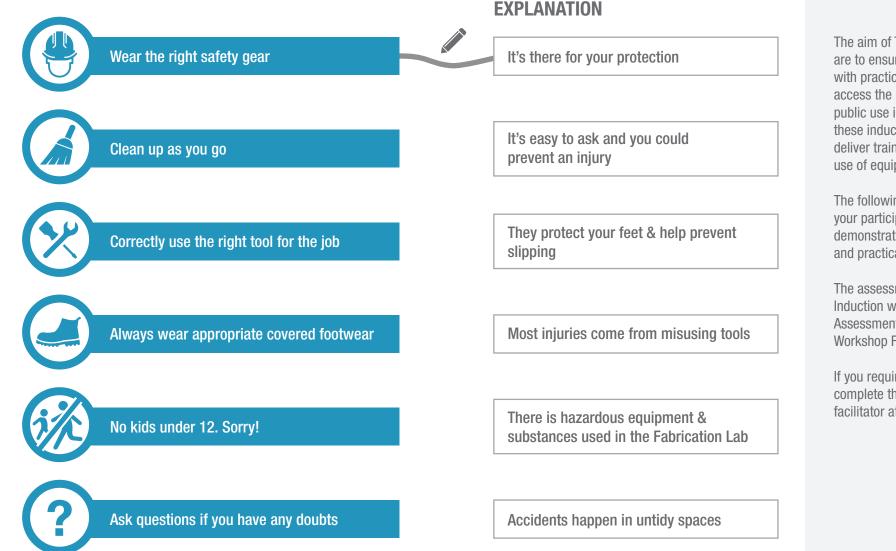
SL The Edge

ACTIVITY 1 - KEY SAFETY TIPS FOR THE FABRICATION LAB

Draw a line to match the safety tip with its explanation



NAME: DATE:

The aim of The Edge Resource Inductions are to ensure that patrons are equipped with practical skills and knowledge to safely access the range of tools available for public use in the Fabrication Lab. In each of these inductions, an Edge Facilitator will deliver training on the safe and appropriate use of equipment.

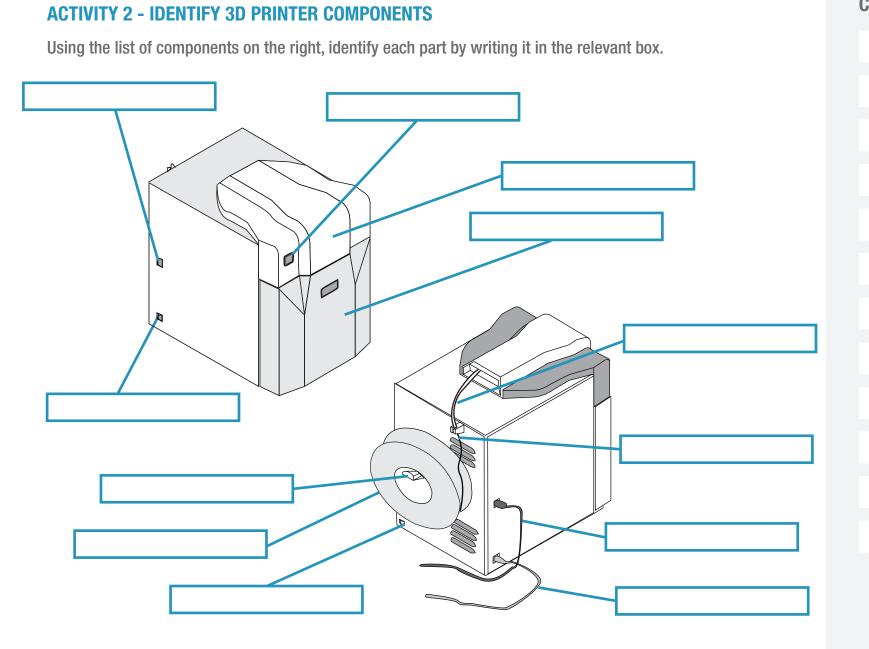
The following form serves as a record of your participation, and provides evidence to demonstrate your competent understanding and practical application of the training.

The assessment evidence collected in this Induction will be in three forms: Written Assessment, Peer Assessment (Verbal), and Workshop Facilitator Observations.

If you require any extra assistance to complete this induction please inform your facilitator at the beginning of the session.



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COMPONENTS

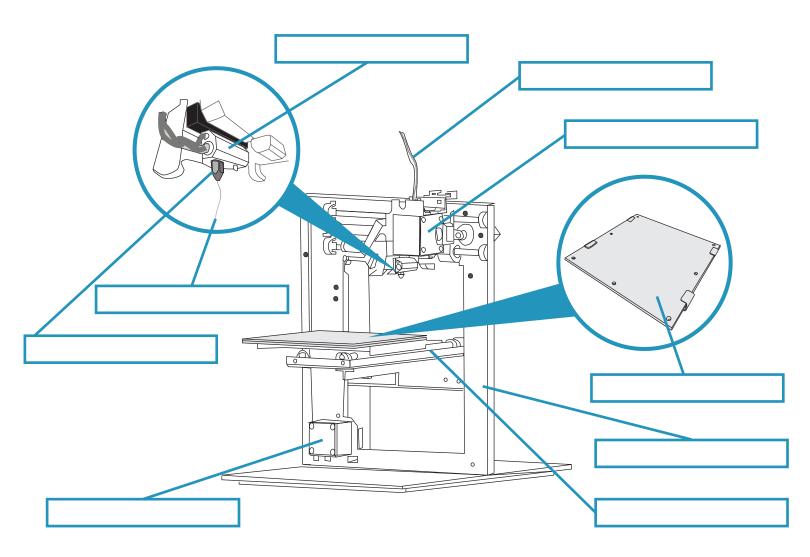
Power Port USB Port **Filament Tube** Filament **Filament Reel** Front Door **Top Door** Initialise Button/Status Light Power ON/OFF **Power Cable USB** Cable **Reel Roller**



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ACTIVITY 3 - IDENTIFY THE INTERNAL COMPONENTS

Using the list of components on the right, identify each part by writing it in the relevant box.



COMPONENTS

Print HeadNozzleFilamentFilament StepperFilament & Filament TubeVAxis RailsChassisPrint Bed & PerfboardZ Axis Stepper

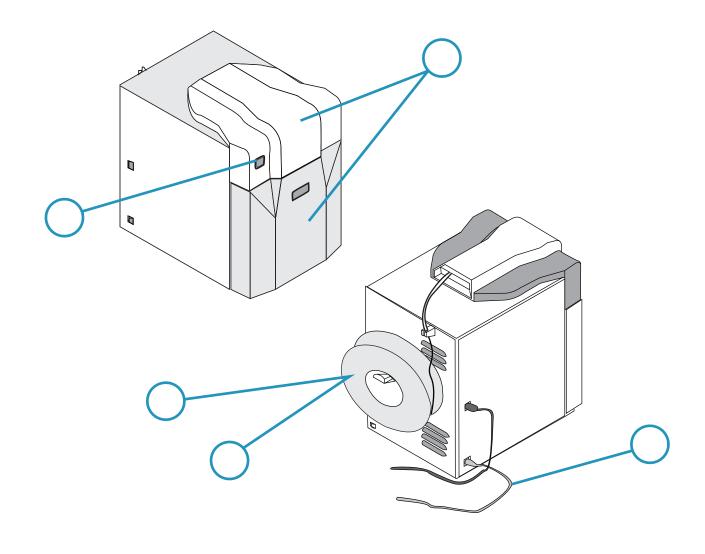


THE EDGE 3D PRINTER INDUCTION Assessment Record

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ACTIVITY 4 - IDENTIFY 3D PRINTER SAFETY/OPERATIONAL TIPS

Using the safety tips on the right, identify what component it relates to by writing the safety tip number in the relevant circle.



SAFETY/OPERATIONAL TIPS

1 Remember your electrical safety

2 Double click me to turn on the light inside. HOLD me to abort

- 3 Keep me closed when printing Keeps the print warm & stops it from deforming
- Make sure there are no kinks & that the filament can roll off the reel cleanly

5 Make sure there is enough filament on the roll to print your model

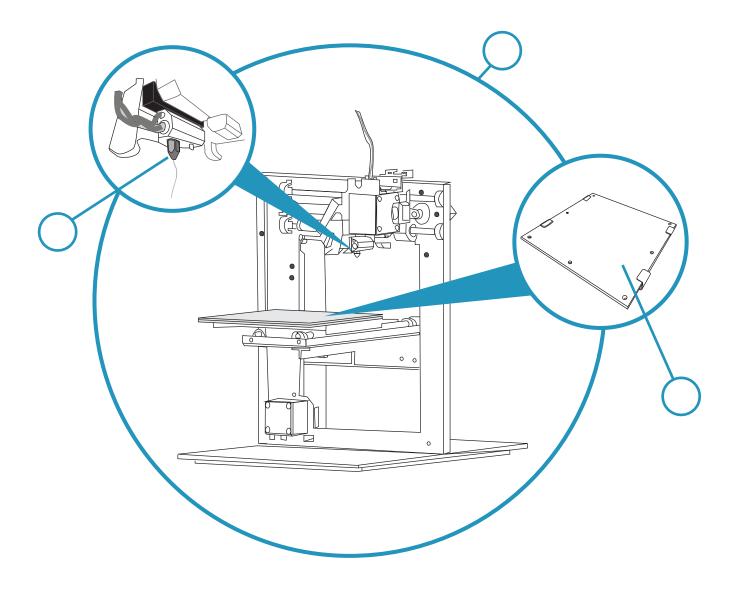


THE EDGE 3D PRINTER INDUCTION Assessment Record

SL The Edge

ACTIVITY 6 - IDENTIFY 3D PRINTER SAFETY/OPERATIONAL TIPS

Using the safety tips on the right, identify what component it relates to by writing the safety tip number in the relevant circle.



SAFETY/OPERATIONAL TIPS

① Crush Hazard! Moving parts don't stop for fingers

250°C+ This will burn. Turn off & allow to cool before handling

3 Replace perfboard carefully. If steppers slip the print will need to be reinitialised





ACTIVITY 7 - 3D PRINTER WORKFLOW

We've identified four key stages in the 3D printing process. Each stage is listed below, with a number of consecutive steps. Put each step in the correct order, by placing a number in the corresponding circle.

1. GET THE 3D PRINTER READY

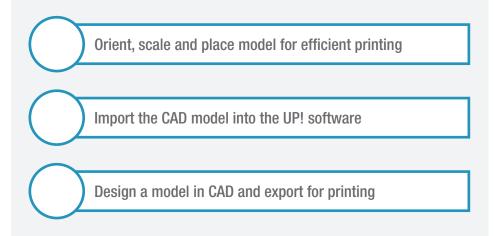
Check the 3D printer is extruding correctly

Switch on and initialise the 3D Printer

Check there is enough filament to complete the print

Insert the perfboard into the print bed

2. PREPARE YOUR DESIGN FOR PRINTING







ACTIVITY 5 - 3D PRINTER WORKFLOW CONTINUED

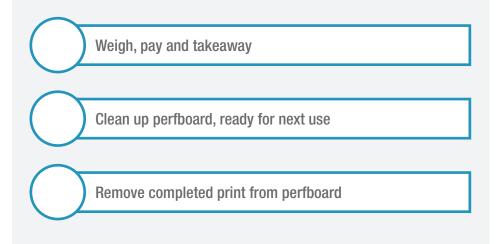
3. PRINT YOUR MODEL

Monitor the print job

Select print options and execute print

If the print is failing, abort the job

4. REMOVE YOUR JOB







PEER ASSESSMENT

I confirm that the observations of my peer showed active participation in this inducation workshop and demonstrated a satisfactory understanding, including competent and safe use of the above tools.

	Date	Peer Assessor	Peer Assessor Signature
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FACILITATOR WORKSHOP OBSERVATION

I confirm that the observations made of the participant and active participation in this induction workshop demonstrated a satisfactory understanding, including competent and safe use of the 3D printer.

Date

Edge Facilitator

Facilitator Signature

PARTICIPANT DECLARATION

I declare the assessment above was my own individual work.

Date

Participant Signature

