



3D Printing Risk Assessment

Risk	Control/Action Taken	Risk Level	Timing of Action
Trip hazard / available space	<ul style="list-style-type: none"> - Young people to be grouped onto specific tables / into specific areas of the teaching space when working. - Young people to be discouraged from moving around the room unnecessarily. - 3D Printer to be set up safely in a defined area of the teaching space, with sufficient space around it. - Hyett Education session leader to ensure that any extension leads are covered, secured and/or beyond the pupils' activity area. 	Low	On the day of the event
Burns	<ul style="list-style-type: none"> - Key components and basic operation of the 3D printer to be demonstrated by Hyett Education session leader, with risks from extremely hot internal components explained. - Young people to be clearly directed not to open the printer or touch any of the components inside.. - Following printing, only the Hyett Education session leader to open the printer and handle printed items initially. 	Low	On the day of the event
Plastic fumes / lack of ventilation	<ul style="list-style-type: none"> - All 3D printing materials emit fumes when heated that could be harmful if inhaled over long periods without adequate ventilation. Hyett Education session leader to evaluate ventilation in teaching area, and ask for window(s) to be opened if appropriate. - Hyett Education to use PLA plastic filaments to minimise fumes. 	Low	On the day of the event
Liquids	<ul style="list-style-type: none"> - Young people to be asked to place any water bottles well away from equipment for the workshop. 	Low	On the day of the event
Viewing the printer in action	<ul style="list-style-type: none"> - Where possible, instructor sets up an online stream for the class to watch the print safely. - If not possible, children view the printer in small, supervised groups. Children instructed not to touch or open any compartments of the printer. 	Medium	On the day of the event

	Name	Position	Signature	Date
Risk Assessor	Antony Hyett	Teacher/Consultant		