

Barwell C.E Academy Art & Design/Design & Technology Risk Assessment



Risk I	Matrix	Potential consequence of harm			
	he level of risk when presented with d hazards.	Minor injury. Hazard can cause an illness, injury or equipment damage but to the results would not be expected to be serious.	Significant injury. Hazard can result in a serious injury and or illness, over 3-day absence.	3. Major injury. Hazard capable of causing death or serious and life-threatening injuries.	
	 Unlikely – rare, though possible 	Low	Low	Medium	
Likelihood of harm	2. Possible – could happen occasionally	Low	Medium	High	
	3. Probable – injury likely to occur	Medium	High	Extreme	

	S. Thomasson (D&T subject lead)		S. Thomasson	
Risk Assessor (s)		Risk Assessor(s) Signature		
Name(s):		(S):		
Authorised By:		Authoriser Signature:		Initial
Date Conducted:	13.04.2023	Date of Next Review:	August 2023	
		Date of Review:		
		Date of Review:		
		Date of Review:		
		Date of Review:		

General: Provision; General: Equipment advice; General: Equipment Storage

Hazard	Who might be			Actio	on Require	d
(Something with a potential to cause harm)	Harmed & How?	Preventative Measures and Controls	Level of risk	Who (Initial)	Date By: (/)	Done?
General: Provision & Supervision	Pupils, staff	 Class and group sizes should be appropriate to: Room size, class size, staff: pupil ratio, the nature of the activity, pupil age, pupil ability. Health and safety rules and responsibilities should form part of a whole-school set of expectations and should be expressed before each activity that involves an element of risk. Staff and pupils are advised to wear aprons to protect clothing. Staff and pupils are advised to wear appropriate footwear for safe grip and foot protection. Staff and pupils are advised to wear goggles when carrying out activities that use chemicals or generate small fine, loose particles to protect their eyes. Share and warn pupils and staff of the risks involved before, during and after the activity. Expectations and rules visible in the classroom or working environment. 	Low			
General: Equipment	Pupils, staff	 All equipment must be maintained and monitored before and after each use for wear and damage. All equipment must be recorded in quantity when handing out and returning to storage. Ensure staff understand how to use the equipment in the correct and safe manner, and are aware any risks. Staff are trained on basic hygiene, health and safety awareness and know the location and/or contact for the school first-aiders. 	Low			

General: Equipment storage Pupils, staff	 Equipment and substances stored appropriately so they do not present a trip, slip or fall hazard. Heavy equipment stored at an appropriate level. Rags, cotton waste, polyurethane foam or similar materials should not be allowed to accumulate be stored near naked flames, hot objects or immediately against electrical equipment. 	Low		
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General: Substances and COSHH; General: Kitchen classroom (or any other areas in which we will teach and prepare food with pupils)

Hazard	Who might be			Acti	on Require	ed
(Something with a potential to cause	Harmed & How?	Preventative Measures and Controls	Level of risk	Who (Initial)	Date By: (/)	Done?
General: Substances & COSHH (i.e ink, glue, fixatives)	Pupils, staff	 All highly flammable substances (i.e. fixatives) should be stored in suitably labelled, lockable metal storage containers or cupboards. Inventory of chemicals used within the subject that identifies the quantity stored, includes material safety data sheets, identifies the level of risk from them and if there is a requirement to undertake a specific COSHH risk assessment. Refer to COSHH (Control of Substances Hazardous to Health) for further advice. Communicate known risks from chemicals to the relevant people who may be exposed to any risk, including teaching, cleaning staff and pupils. Only low hazard paints and inks used where possible. Food should not be consumed or brought into work areas where chemicals are used. 	Low	RH	As needed	

(Something with a potential to cause harm)	Harmed & How?	Preventative Measures and Controls	Level of risk	Who (Initial)	Date By: (/)	Done?
Hazard	Who might be	which we will teach and prepare food with pupils)		Actio	on Require	ed
General: Kitchen classroom (or any area in which you teach and prepare food with pupils)	Pupils, staff	 Staff and pupils will be instructed and trained how to be safe in the kitchen classroom (i.e. no running, no walking around with sharp equipment). Staff and pupils will be instructed and trained on good food hygiene in the kitchen classroom (i.e. washing hands thoroughly before and after each activity, cross-contamination). Pupils' bags and equipment kept away from working areas in the kitchen. Staff supervision of pupils. Staffing ratios are appropriate to the size of class and age of pupils. Spillages are immediately mopped/cleaned up and the area returned to a dry, safe condition. General surrounding and immediate area kept clear of obstacles and in a tidy organised state. Electrical equipment will be monitored and maintained regularly; PAT tested annually. Equipment will be used correctly to prevent cross-contamination (i.e. coloured chopping boards for different foods such as raw meats). Long-hair must be tied back and put into a bun if longer than shoulder-length or hair nets will be worn. When preparing food, staff and pupils should wear aprons. 	Low			

Kitchen classroom/classroom: Sharp implements (i.e knives/peelers)	Pupils, staff	 Staff must store sharp implements in a locked cupboard or room, Staff must monitor the quantity of sharp implements handed out and returned before and after each activity. Staff and pupils must be able to remove and replace sharp implements safely, with their blade and handle clearly visible, in and out of their container. Pupils must be taught the correct techniques for using sharp implements under strict supervision by staff. Pupils must be instructed not to leave sharp implements in the sink when washing up. 	Medium		
Kitchen classroom/classroom: Electric blenders and liquidisers	Pupils, staff	 Staff must assemble or disassemble electric blenders and liquidisers. Staff must wash the blades from an electric blender and liquidiser. Electrical equipment must be appropriately monitored and maintained regularly; PAT tested annually. 	Medium		
Kitchen classroom: Oven and cooker hobs	Pupils, Staff	 Staff and pupils to be clear about the safe and appropriate use of an oven and the hob, including the risks they present. Staff to consider pupils ability, height and age before allowing them to use an oven and/or the hob. Oven gloves must be used to place food in the oven/grill and when removing it, under strict staff supervision. Oven doors must be kept closed unless food is being placed in or taken out. 	High		

Kitchen classroom: Food storage & advice Pupils, Staff, Parent(s)/Carer(s)	 Hot food should be cooled quickly and stored in the fridge within 1-2 hours. Pupils and parents will be advised of the appropriate reheating methods and possible allergens if taking home. Finished dishes must be stored appropriately until they are ready for the pupils to consume or take home. Completed dishes not collected after 48 hours, or 24 hours for rice dishes, will be disposed of. Ingredients must be stored and labelled appropriately. 	Low		
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Slips, trips and falls; Allergies; Use of glue, fixatives and adhesives; Burns due to glue guns and hot components; General hygiene (balloons)

Hazard (Something with a potential to cause harm) Who might be Harmed & How?			Actio	on Require	d	
	Harmed &	Preventative Measures and Controls	Level of risk	Who (Initial)	Date By: (/)	Done?
Slips, trips and falls	Pupils, Staff	 Staff supervision of pupils. Staffing ratios are appropriate to the size of class and age of pupils. Spillages are immediately mopped/cleaned up and the area returned to a dry, safe condition. General surrounding and immediate area kept clear of obstacles and in a tidy organised state. Pupils' bags and equipment kept away from working areas in the classroom. 	Low			

Allergies/intolerances to chemicals, materials and ingredients	Pupils, Staff	 Staff are aware of the school first aiders. Staff watch for adverse and undiagnosed reactions. All staff working in the room are aware of any pupils or staff with diagnosed allergies and plan accordingly. The school's medical/allergies list should be consulted when preparing for a lesson. Children with known allergies/intolerances should be monitored throughout the lesson. Labels should be added to food that might be an issue. A text message should be sent to families informing them of food sampling before the event to ask for updates to be provided if necessary. 	Medium	нт	As needed	
Use of glue, fixatives and adhesives	Pupils, Staff	 Staff supervision of pupils. Pupils instructed and understand to use appropriate amounts of glue. Water-based, non-toxic formulation only - No solvent based. Approved products for children only. No super-glue or wallpaper paste containing fungicides. Spray adhesives used by staff only due to highly flammable, and toxic. They must be used in well-ventilated areas away from children. Heavy vapour adhesives used by staff only. Behaviour expectations are expressed before activities proceed. 	Low			
Burns, due to glue guns and hot components.	Pupils, Staff	 Low-melt glue guns are considered safer than their hot-melt alternatives. If hot-melt glue guns are to be used, these should only be used b older children under close supervision. Behaviour expectations are expressed before activities proceed. 	Medium			

(Something with a potential to cause	Harmed &	Preventative Measures and Controls	Level of risk	Who	Date	
Hazard	Hazard Who might be				on Require	ed
Cuts, punctures, lacera	Cuts, punctures, lacerations and pinches from cutting and shaping implements; Sewing, needlework and fabric choices					
General hygiene – balloons	Pupils, Staff	 When using balloons, staff should ensure hygienic procedures are followed. Do not share mouthpieces. A hand pump should be used if available for inflating balloons. Behaviour expectations are expressed before activities proceed. 	Low			

Cuts, punctures, lacerations and pinches from cutting and shaping implements (i.e scissors, pliers)	Pupils, Staff	 Staff supervision of pupils. Round-ended school scissors only when working independently. When cutting fabric, children to use suitable scissors whilst supervised by staff. Instructions given prior to the task. Cutting and shaping implements not in general class usage must not be left unattended, and should be counted in and out of storage. It is recommended to store cutting and shaping implements in a safe, secure place. Damaged or faulty cutting and shaping implements to be immediately discarded in a safe and sensible manner. When punching holes through materials, pupils should use a pointed pencil to press into a soft, pliable material such as soft tack or a large rubber. Screwdrivers and/or bradawls are not recommended for punching holes in materials. Where possible, use a hole punch or hand drill for creating holes. Where applicable, cutting boards or mats should be used. Pupils to be taught how to carry scissor blades closed and held in a gripped palm, never carried with blades pointing outwards. Left-handed tools should be offered to left-handed pupils; right-handed tools should be offered to right-handed pupils. Behaviour expectations expressed before activities proceed. 	Low		
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Sewing, needlework and fabric choices Staff, Pupils Staff supervision of pupils. Pupils are taught how to use a needle and thread in the correct safe manner. Cotton and other threads must be cut using scissors, never test and set by example. Staff, Pupils Staff, Pupils	eth e needle Low ida	
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Hazard (Something with a	Who might he	Level of	Action Required			
potential to cause harm)	Harmed & How?	Preventative Measures and Controls	risk	Who (Initial)	Date By: (/)	Done?
Use of tenon saws (with bench hooks) and/or coping saws (with vices) to cut wood	Pupils, Staff	 Staff strict supervision of pupils. All pupils must be taught how to use the saws and holds in the correct and safe manner. Pupils must be set up with adequate space between stations for sawing, right-handed pupils will need more space to the left and left-handed to the right. Fine dust and wood particles may enter the air when sawing wood, if possible, provide pupils with goggles to protect their eyes. The area must be well ventilated, and the pupils must understand not to blow loose particles after sawing. 	High			

	 Ensure that pupils are able to secure the wood properly on bench hooks before proceeding to cut. G-clamps to secure the bench hook to the desk or corner bench hooks, which prevent sideways movement, can help with this. All tenon saws (with bench hooks) and/or coping saws (with vices) must be accounted for when handed-out and returned, and stored in a safe, secure location away from children. Behaviour expectations expressed before activities proceed. 		
Hand drills and drill bits; and other portable power tools	 Staff strict one-to-one supervision of pupils. Staff must change the drill bit, ensuring that it is secure and square before proceeding. Staff changing the drill bit should be mindful of heat coming from the drill bit after usage. All pupils must be taught how to use the hand drill in a correct and safe manner; without applying too much pressure to the drill, with the work-piece secured appropriately. Pupils must be set up with adequate space between stations for drilling, right-handed pupils will need more space to the left and left-handed to the right. Fine dust and wood particles may enter the air when drilling into wood, if possible, provide pupils with goggles to protect their eyes. The area must be well ventilated, and the pupils must understand not to blow loose particles after drilling. Hand drills must be set to the lowest speed to reduce vibration and prevent loss of control. Hand drills must be monitored and well-maintained, they must be accounted for when handed-out or returned, and stored in a safe, secure location away from children. Behaviour expectations expressed before activities proceed. 	High	

		 To prevent entanglement, over-garments must be removed and long-sleeved shirts rolled up – aprons are preferable to protect clothing from swarf/dust, but to also hold back any loose elements on clothing. Long hair should be tied back and put into a bun if longer than shoulder-length. Ensure that pupils are able to secure the wood properly on bench hooks before proceeding to drill. G-clamps to secure the bench hook to the desk or corner bench hooks, which prevent sideways movement can help with this. 				
Use of clay/paints						
Hazard (Something with a potential to cause harm)	Who might be Harmed & How?	Preventative Measures and Controls	Level of risk	Who (Initial)	Date By: (/)	Done?
Clay	Pupils, Staff	 Pupils must thoroughly wash their hands before and after using clay. Staff supervision of pupils. Staffing ratios should be appropriate to the size of class and age of pupils. Spillages are immediately mopped/cleaned up and the area returned to a dry, safe condition. General surrounding and immediate area kept clear of obstacles and in a tidy, and organised state. Any cutting and shaping tools used to work the clay must be appropriate for the age group and with no sharp edges. Consider all points made regarding 'allergies to chemicals, materials and ingredients' Consider all points made in regarding 'cuts, punctures, lacerations, and pinches from cutting and shaping implements'. 	Low			

Paint	Pupils, Staff	 Staff are aware of the school first aiders. Staff watch for adverse and undiagnosed reactions. Staff are aware of any pupils or staff with diagnosed allergies and plan accordingly. Pupils must thoroughly wash their hands before and after using paint. Staff supervision of pupils. Staffing ratios are appropriate to the size of class and age of pupils. Spillages are immediately mopped/cleaned up and the area returned to a dry, safe condition. General surrounding and immediate area kept clear of obstacles and 	Low		
		 General surrounding and immediate area kept clear of obstacles and in a tidy, and organised state. Water-based paints recommended. 			

Use of batteries as part of an electrical system, loose batteries; general circuitry and electrical components; plug sockets

Hazard (Something with a	Who might be	Level of	Action Required			
potential to cause harm)	Harmed & How?	Preventative Measures and Controls	risk	Who (Initial)	Date By: (/)	Done?
Crocodile clip pinches	Pupils, Staff	 Staff supervision of pupils. Instruction the pupils on appropriate and acceptable behaviour when working with crocodile clips All pupils must be taught how to use the crocodile clips in a correct and safe manner. 	Low			
Plug sockets (mains electricity)	Pupils, Staff	 Staff supervision of pupils. Staff are aware of the school first aiders. All electrical equipment should be PAT tested to ensure that they are safe to use. 	High			

	 If there are visible defects with the equipment, do not continue to use it, this includes the cables and plug socket as well as damage to the device itself. Pupils are made aware of the risks of putting objects and wet hands near/into electrical sockets Ensure that pupils know the dangers of mains electricity 		
Batteries (cell, button, coin etc) Pupils, Staff	 All staff and pupils must be taught the dangers of misusing batteries; including the knowledge that empty or 'dead' batteries still present the level of risk. Assess batteries before use for any deterioration and leakages, if present dispose of immediately and appropriately. Remove batteries from any electrical circuits and systems after use. Store all batteries in a locked and labelled safe location away from pupils. Store batteries in appropriate storage containers to minimise the risk of fire. Count all batteries out to the pupils and back in after use Keep new, unused batteries in their original packaging If you suspect that a pupil has swallowed a battery, they must attend the nearest Accident and Emergency immediately. 	Medium	

INDIVIDUAL RISK ASSESSMENT – to be completed as required.								
Name: Class:								
Hazard (Something with a	Who might	o might Preventative Measures and Controls; actions to reduce the likelihood of risk L		Level of			Required	
potential to cause harm)	be Harmed & How?	to the pupil or others:	risk	Who (Initial)	Date By: (/)	Done?		