Norton Primary School

Design and Technology risk assessment: mechanisms

Location of activity: classrooms

Risk assessment completed by: Megan Donnelly

All of the below items must be used at a separate workstation, only 1 pupil in each area with an adult.

Hazards	Potential injury	
		Control measures
Glue gun	Burns	KS1 children are to not use the glue gun.
		Pupils are taught how to use the gun safely, KS2 pupils can use the gun if supervised 1:1.
		Staff to be aware what to do if a child accidently burns themselves with the gun.
		We only use low-melt glue guns.
		Any electrical equipment should be regularly tested for electrical safety.
		When it is not in use, the glue gun must be unplugged and stored safely.
Junior hacksaw	Cuts	All children should work 1:1 with an adult.
	Asthma triggers	Only staff to replace worn blades.
	(dust)	Teeth should point forwards on the blades for ease of cutting- the cut will be on the push, not the pull.
		Pupils who are likely to cause injury to themselves or others are prohibited from using hacksaws.
		Prior to use, staff should check the security of the blade in the frame and the blade has no broken teeth.
		When not in use the saws must be kept in a secure location.
		Pupils to be taught to ensure they have sufficient personal space to use the saw.
		The sawing of a piece of wood to be modelled to pupils, always using a bench hook or G-cramp and not
		saw directly onto the table.



		Pupils to be taught to draw the saw back a couple of times to make a starter notch before beginning
		sawing action.
Dust		
		There is a risk of inhalation of dust. Dust must not be blown away as this increases the risk.
		Sawdust and waste materials must be cleaned up in a timely manner.
		Eye protection should be warn if there is a risk of debris being expelled towards the eye.
		Saws must not be used on expanded polystyrene.
Hand operated drill	Cuts	Always use a vice or bench hook and clamp to secure the material you will be drilling into.
		If the work is too large to fit into a suitable vice, hold it as securely as possible, perhaps with the aid of G
		clamps.
		Eye protection should be warn if there is a risk of debris being expelled towards the eye.
		Long hair and loose clothes should be tied back to reduce the risk of entanglement in the drill.
Hammers	Cuts, bruising to	Clamps should be used to hold the items.
	hands.	1:1 supervision when using the hammers.
		Demonstration of how to use a hammer safely without causing injury.
Pliers	Cuts	Children to be made aware that the blades could cause a pinching cut.
		Eye protection should be warn if there is a risk of debris being expelled towards the eye.
		Cut at right angles. Never rock the cutting tool from side to side or bend wire back and forth against the
		cutting edges.
		Pull on the pliers: do not push away from you when applying pressure.
Craft knife	Cuts	Only craft knives with one retractable blade to be used.
		Safety rulers should be used as they have a raised platform to protect fingers.
		Only Year 5 and 6 pupils should use craft knives, with close supervision of an adult.
		Used blades should be disposed in staff bins and not classroom bins.

Prior to use, staff will check the security of the blade in the holder.
When not in use, all knives should be kept in a secure location.
Year 5 and 6 only:
Pupils to be taught how to hold the craft knife correctly
Pupils to be taught how to use a safety ruler when scoring and cutting in a straight line
Pupils to be made aware that the blade is sharp and can cause cuts
Pupils who are likely to cause injury to themselves or others are prohibited from using craft knives.