Major Safety Test 2022-2023 - Jr and Sr Metal Metal Technology

Nam	e: Total: / 170
Date:	: Block:
Gene	ral Shop Rules /14
1.	Before you use any machine in the metal-shop you must obtain the 's permission.
2.	To protect your eyes, you must wear
3.	is not allowed in the shop
4.	Always pay to what you are doing on the machine
5.	Do not the operator
6.	Know what to do in case of an or hazard
7.	Tuck in loose, Remove and tie back to prevent it from
	getting caught in the machinery
8.	Keep the floor and work areas
9.	If you feel unsafe about a particular activity, consult with you before
	proceeding
10.	Always check with the before using any substance that may be or unknown
11.	Inform the in any and all types of emergencies
Tools	and Materials /10
1.	Always your work tightly with a (tool name) so it will not slip or
	move
2.	Take the time to get the right for the job. Using the improperly can
	lead to frustration, injury or damage to the or work.
3.	Always lift with your not your back

4.	Always carry		with the politied end	a facing
5.	Where do we store flammable or combustible materials:			
6.	Whose help do you ask for if you are unclear about how to use something safely?			
Powe	er Tools			/9
1.	Use only tools that a	are in	conditio	n.
2.	Always	or	a machine before d	oing any maintenance work
3.	3. The machine operator must be qualified and have the's permission			
4.	Only the	_ is to turn on t	he machine or powe	er tool
5.	Do not walk away fr	om a machine u	until it has come to a	stop
6.	Make sure all the keep yourself prote		safety devices are i	n place and functioning properly to
7.	Always wear		if there is any cha	ance of injury or irritation of the eye
8.	What should you ch	eck before plug	ging in a power tool	?
Drill	Press/Milling Machi	ine		/13
		flute	helix angle	tip
		flute	helix angle	tip
	shanl		helix angle body	
1.		k	body	diameter
1. 2.	After changing the c	drill bit make su	body re the	diameter clearance angle is clear before starting the drill
2.	After changing the c	drill bit make su	re the or hold in a	diameter clearance angle is clear before starting the drill
2. 3.	After changing the control of the co	drill bit make su ork to be drilled to pro	re the or hold in aotect your eyes	diameter clearance angle is clear before starting the drill
2. 3.	After changing the control of the co	drill bit make su ork to be drilled to pro t blowout or pre	re the or hold in aotect your eyes	is clear before starting the drill (name the tool) es in the drill press table?
2. 3.	After changing the control of the co	drill bit make su ork to be drilled to pro t blowout or pre	re the or hold in a otect your eyes event unwanted hole	is clear before starting the drill (name the tool) es in the drill press table?

7.	(tool name) hard materials before you drill them. This will help			
	prevent the drill bit from slipping around as you try to start a hole			
8.	The of a drill bit (part name) should not be clamped. Ensure the			
	(part name) is held securely in the chuck so drill bit does not vibrate loose.			
9.	or machine whenever changing drill bits to avoid injury			
Drem	el/Hand Drill Safety /6			
1.	your stock before drilling or hold in a (tool name)			
2.	Only use bits that are properly and in the chuck			
3.	Wear to prevent injury to your <u>eyes</u> and to			
	prevent damage to your <u>hearing</u>			
Weldi	ing Safety /13			
1.	Welding can burn or shock you. Wear to protect exposed skin and			
	your body from welding spatter and UV rays, and wear to protect your			
	hands from burns and shock			
2.	is a good conductor and could cancel out protective qualities of your clothing			
	and gloves. Only work in a <u>dry</u> work area!			
3.	The light from welding is bright enough to damage your permanently. Wear			
	approved welding helmet with a # lens or darker for mig/tig/arc welding.			
4.	Wear when chipping, brushing or grinding your welds.			
5.	Welding can produce harmful fumes. Make sure you have effective to clear away the fumes			
6.	Never weld a container that has held flammables unless it has been or			
	was filled and cleaned with Vapours or fumes from solvents, fuels or other			
	flammable liquids can be			
7.	You should always assume that everything in the welding area is so wear			
	on <u>hands</u> and/or use (tool name) to lift or move materials			
Oxy-A	acetylene Torch Safety /12			
1.	Open cylinders slowly, turn at a time (answer with a fraction).			

2.	Always wear	(for eyes)	and	(for hands).	
3.	Ensure proper	in case of ha	armful vapours or f	fumes from metal, brass or	
	bronze etc. This include	s shop fans or re	spirators.		
4.	Suspect everything in a	welding area of l	oeing		
5.	Never weld where	may be	present in case of	explosion.	
6.	Always light the torch w	rith a	(tool name),	gas first.	
7.	Be conscious of where y	ou are pointing	the		
8.	before or up you go! (hint: this sentence should rhyme)				
9.	Have the	check your se	tup before you star	ting torch welding or cutting	
	with the torch.				
Spot V	Welder			/6	
1.	Dress properly. Do not v	vear loose	or jewelry	are required to cover the	
	entire leg.			•	
2.	fo	otwear is not all	owed on the spot v	velder or in the shop.	
				e) to hold and position the hot	
	metal parts being spot v			-	
4.	Turn the spot wel	der once you are	finished using it.		
Bench	ı Grinder Safety			/13	
1.	Inspect the grinder <u>prio</u>	<u>r</u> to use to ensur	e there are no	in the abrasive	
	disc/wheel.				
2.	Check there are no	in the a	rea of the grinder.	Sparks can ignite!	
3.	Only grind on the	of the stone,	never on the side.		
4.	Avoid grinding	pieces of met	al. They could easi	ly be pulled out of your grasp	
	and cause problems or t	he machine jamı	ming/breaking.		
5.	Do not grind either	or	soft metals like	or They can	
	easily get caught or plug	g up the stone			
6.	Grinding generates a lot	of in t	he metal	regularly and take	
	care not to burn yoursel	f.			

7.	are required when using the
	bench grinder (name the 3 best types of safety equipment for eyes, ears, and body)
Right	angle grinder safety /7
1.	Inspect grinder to ensure no in the abrasive disc/wheel.
2.	Ensure the is properly in place and never remove it. It helps protect you!
3.	stock/material with a vice or clamp before grinding.
4.	Avoid shooting through the air and endangering others.
5.	Wear and and and to protect from burns or other injury to
	ears, eyes and body.
Buffe	r/Wire Wheel Safety /4
1.	The biggest danger on the buffer or wire wheel is having the wheel
2.	
	it, it will throw it
3.	Be sure to wear in case strands of wire come loose from the wire wheel
Metal	Cut Off Saws/Bandsaw Safety /8
1.	Make sure the stock is tightly before starting your cut. If it isn't the blade
	will grab it and roll it around
	Keep your clear of the path of the blade at all times
3.	Do not the cut. This could overload the machine or damage the blade
4.	Never use your to clean metal chips or filings from the saw or your material.
	Metal slivers really hurt or could burn you! Use a to clean metal chips or filings
5.	Wear and for <u>ears</u> and <u>eyes</u>
6.	Wear appropriate when <u>handling</u> the stock if it is hot or sharp.
Metal	Lathe Safety /10
1.	Make sure stock/material is and locks are before turning on the lathe.
	This will prevent the material from when you start to cut it
2.	Never leave the in the chuck. Leaving it in the chuck will lead to an accident

3	Material that extends more than twice its diameter out of the chuck should be supported by		
	the and live center to prevent flex and a hazardous situation.		
4	Use extreme caution if your stock extends through the end. It is easy to injure		
	yourself if you fail to notice the protruding end out of the machine.		
5	Tuck in any to prevent it from getting caught in the feed and lead		
	screws which are right by your hips.		
6	Wear to protect your eyes from flying metal chips.		
7	7. Wear appropriate when <u>handling</u> stock but not when operating the lathe.		
8	Ensure the stock has stopped before attempting to handle it.		
Four	dry/Kiln/Forge operations /6		
1	Wear,, and to avoid burning your <u>eyes</u> , <u>hands</u> , or		
	body when opening a recent casting		
2	Do not adjust the kiln or oven unless the has given permission		
3	Overcrowding the area can cause Be aware of your surroundings and		
	communicate with around you.		
Plas	na Cutter /6		
1	Wear approved shaded eye protection, shade # or darker.		
2	Use protective screens. Warn others nearby before		
3	Aways work in a well area. Do not begin working until the ventilation has		
	been turned on.		
4	is a good conductor of electricity. Make sure your area is <u>DRY</u> before cutting.		
5	Always your work or the table and cut over the cutting table to contain the		
	sparks.		
6	Never cut a container that has held		
Spin	Caster/Jewelers Torch/Soldering Iron /12		
1	Wear to protect your eyes. Wear to protect your hands.		
	Tie back long and strings. Remove your loose objects or jewelry.		
2	Keeps your away from the safety shell until it can come to a		

3.	Make sure your work area has effective		
4.	The tip of a torch/soldering iron should always be considered Do not touch the tip!		
5.	When plugging in a soldering iron make sure the does not touch the		
6.	Do not breath in soldering or welding		
7.	Melted solder can burn through and your Never solder upside down.		
isc/	Belt Sander /8		
1.	When using the belt/disc sander, always keep your on the work table.		
2.	Sand side to side so that you wear the belt evenly. If you stay in one spot too long you will		
	damage the and break it.		
3.	When sanding on the round disc, always sand on the side of the disc turning		
	towards the work table. Sanding on the wrong side will throw your work up in the air!		
4.	When sanding small parts always use to hold your material in order to		
	protect your hands.		
5.	NEVER wear on the belt/disc sander. If you get your fingers too close the		
	will pull your hands in.		
6.	if the material gets hot. (what do you do with it?)		
7.	Hands and fingers should be no closer than (measurement?) to the moving		
	abrasive.		
evei	rly Sheer/Squaring foot sheer /4		
1.	The sheer is a dangerous tool as you can crush or sever your fingers. NEVER place your		
	under or near the blade.		
2.	How many people can use the <u>Beverly sheer</u> at the same time?		
3.	. Do not place your under the foot pedal of the <u>foot sheer</u> .		
4.	Use the gauge on the foot sheer to line up your material.		
hem	cicals, combustibles, toxic and hazardous substances safety /9		
1.	Where do you store flammable or combustible materials?		

3.	Before handling any hazardous substances ensure you are wearing proper protective gear
	such as, and, and body?)
4.	Follow all for safe use
5.	Some cylinders can explode if dropped or heated. Keep cylinders away from
6.	Always work in a area or wear a to protect your lungs

Choose the best answer and place in the correct space provided. You may use each answer more than once. <u>Some answers might not be answers at all!</u>

- Sparks
- Oxygen
- Acetylene
- Water
- 10
- 8
- 4
- Ventilation
- Ventilated
- Striker
- Unplug
- Lockout
- Turn Off
- Half
- Force
- Brush
- Flying
- Spinning
- Rotating
- Procedures
- Tight
- Sharp Objects
- Instructor
- Instructor's permission
- Operator
- Horseplay
- Eye protection
- Attention
- Distract
- Cracks
- Torch
- Hot
- Flammables
- Sharpened
- Strings
- Pliers
- Guards
- Complete
- Away
- Hold
- Eyes
- Face
- Clean
- Hair

- Hands
- Dangerous
- Legs
- Lips
- Flutes
- Shank
- Shaft
- Scrap Wood
- Small Pieces
- Emergency
- Clothing
- Jewelry
- Hearing protection
- Protective clothing
- Respirator
- Leather gloves
- Gloves
- Welding goggles
- Welding mask
- Full face shield
- Leather apron
- Loose clothing
- Clamped in place
- Secure
- Middle Point
- Brass
- Aluminum
- Sheet Metal
- Clamp
- Tool
- Center Punch
- Vice
- Chuck Key
- Tailstock
- Headstock
- Fire Proof container
- good working order
- power switch is off
- steam cleaned
- cool your material
- grab your work
- Ignition sources
- Explosive
- Down and away from you

- anti-kickback fingers
- splitters
- push stick
- relief cuts
- rip cuts
- cross cuts
- free hand
- jig
- off button
- brake
- right
- left
- 1 foot
- 12 inches
- 30 cm
- 300 mm
- 3cm
- 1/2 inch
- kickback
- kicked
- hand
- to the side
- to the right
- to the left
- off
- on
- fingers
- foot
- belly button
- brush
- clutch
- transmission
- magic