Major Safety Test

Metal Technology

Name	·	Tota	l:/ 141
Date:	Block:	:	
	this first: If a question has 2		
answe	er has 2 words to get the 1 m	ark. If the question has	s 3 blanks
(mark	and so forth.	eans the answer has 5	words to get the 1
	ana so joi in.		
Gene	ral Shop Rules		/14
1.	Before you use any machine	e in the metal-shop yo	u must obtain your
2.	To protect your eyes you me	ust wear	
3.	is not all	owed in the shop	
4.	Always pay	to what you are do	oing on the machine
5.	Do not	_ the operator	
6.	Know what to do in case of	an	<u> </u>
7.	Tuck in loose	, Remove	and tie back
	to prevent it from	om getting caught in tl	he machinery
8.	Keep the floor and work are	eas	
9.	If you feel unsafe about a pa	articular activity, cons	ult with you
	befo	ore proceeding	
10.	Always check with your	before	e using any
	substance that may be		
11	Inform	in any and all tyn	es of emergencies

/10

Tools and Materials

and functioning properly

7.	. Always wear if ther	e is any chance	
	of injury or irritation of the eye		
8.	. What should you check before plugging in a power too	ol?	
Drill	l Press	/13	
1.	. After changing the drill bit make sure the	is	
	clear before starting the drill		
2.	down work to be drilled or hold in a		
3.	. Always wear to protect your ey	es	
4.	. How do you prevent blowout or prevent unwanted hole press table?	es in the drill	
5.	. Tie back		
	. Remove all and/or	that could get	
	caught in the drill press		
7.	hard materials before ye	ou drill them.	
	This will help prevent the drill bit from slipping around as you try to		
Q	start the hole The of a drill bit should not be clamp	and Enguratha	
0.	is held securely in the chuck so dril		
	vibrate loose	i oit does not	
9.		whonover	
9.	changing drill bits to avoid injury	Whenever	
Drem	nel/Hand Drill Safety	/6	
1.	your stock before drilling or hold in a		
	Only use bits that are properly and		

	to prevent damage to your hea	aring	
Weld	ling Safety	/13	
1.	Welding can burn or shock you. Wear		
	to protect exposed skin from welding spatter and UV rays, ar	nd wear	
	to protect your hands from burns a	nd shock	
2.	is a good conductor and could cancel out protecti	ive	
	qualities of your clothing and gloves. Only work in a dry wor	rk 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 gr	rinding	
	your welds		
5.	Welding can produce harmful fumes. Make sure you have ef	fective	
	to clear away the fumes		
6.	Never weld a container that has held flammables unless it has	s been	
	or is filled with Vapo	ours or	
	fumes from solvents, fuels or other flammable liquids can be		
7.	You should always assume that everything in the welding are	ea is	
	so wear on hands and/or use		
	to lift or move materials		
Oxy-	Acetylene Torch Safety	/11	
1.	Open cylinders slowly, turn at a time		
2	Always wear and		

3.	Ensure proper in case of harmful vapours or fur	
	from galvanized metal, brass or bronze etc. This includes shop fans or	
	respirators.	
4.	Suspect everything in a welding are of being	
5.	Never weld where may be present in case of	
	explosion	
6.	Always light with a, gas firs	
7.	Be conscious of where you are pointing the	
8.	before or up you go!	
nc	ch Grinder Safety /13	
,11C	in Grinder Safety 718	
1.	Inspect the grinder prior to use to ensure there are no	
	in the abrasive disc	
2.	Check there are no in the area of the grinder.	
	Sparks can ignite!	
	Only grind on the of the stone, never on the side	
3.	or the ground, no ver our time ground,	
	Avoid grinding They could easily	
4.	Avoid grinding They could easily	
4.	Avoid grinding They could easily pulled out of your grasp and cause problems/danger	
4.	Avoid grinding They could easily pulled out of your grasp and cause problems/danger Do not grind either or soft metals like	
4.5.	Avoid grinding They could easily pulled out of your grasp and cause problems/danger Do not grind either or soft metals like or They can easily get caught or plug	
4.5.	Avoid grinding They could easily pulled out of your grasp and cause problems/danger Do not grind either or soft metals like or They can easily get caught or plugup the stone	

Right	angle grinder safety	/7			
1.	Inspect grinder to ensure no	in the abrasive disc			
2.	Ensure the is pro	operly in place and never remove it			
3.	stock before grinding it				
4.	Avoid shootingtl	nrough the air and endangering others			
		and to			
	protect from burns or other injury				
Buffe	r/Wire Wheel Safety	/4			
1.	The biggest danger on the buffer	or wire wheel is having the wheel			
2.	Hold your work against the whee	el just below the			
	If the wheel should gr	rab it, it will throw it			
3.	Be sure to wear	in case strands of wire come			
	loose from the wire wheel				
Meta	Cut Off Saws Safety	/8			
1.	Make sure the stock is tightly	before			
	starting your cut. If it isn't the bla	ade will grab it and roll it around			
2.	Keep your clear of t	the path of the blade at all times			
3.	Do not the cut. T	his 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 meta	l chips or filings			
5.		for ears and eyes			

6.	Wear appropriate	when handling the stock			
Meta	l Lathe Safety		/10		
1.	Make sure stock 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	t in the		
	chuck will lead to an accident				
3.	Material that extends more that	in twice its diameter out of the	chuck		
	should be supported by the to prevent flex and a		nd a		
	hazardous situation				
4.	Use extreme caution if your st	ock extends through the	· · · · · · · · · · · · · · · · · · ·		
	end. It is easy to injure yourself if you fail to notice the protruding end				
5.	Tuck in any	to prevent it from	n getting		
	caught in the feed and lead screws which are right by your hips				
6.	Wear	to protect your sight from flyi	ng metal		
7.	Wear appropriate	when handling stock but	not when		
	operating the lathe				
8.	Ensure the stock has stopped _	before attem	npting to		
	handle it				
Foun	dry/Kiln operations		/4		
1.	Wear,	, and			
	to avoid burning your eyes, hands, or body when opening a recent				
	casting				
2.	Do not adjust the kiln or oven	unless the	has		
	given permission				

Chemicals, combustibles, toxic and hazardous substances safety /9

1.	How do you store fla	mmable or combustible materials:	_
2.	Tell	if any container or bottle is missing its label o	r
	not in original contain	ner.	
3.	Before handling any hazardous substances ensure you are wearing		
	proper protective gea	r such as,,	:
	and		
4.	Follow all		
5.	Some cylinders can e	explode if dropped or heated. Keep cylinders	
	away from		
6.		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. Some answers might not be answers at all!

- 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