

## Risk Assessment – Changing Materials

<b>Creator/Reviewer of Risk Assessment</b>	<b>Name</b> Ian Snell
	<b>Signature</b> 
<b>Next Review Date</b>	January 2021

Severity	Likelihood	Risk Rating* (S x L)
1 No or Little Harm	1 Unlikely	1-5 Low
2 Minor/First Aid	2 Possible	6-10 Medium
3 Medical Attention	3 Probable	10+ High
4 Hospitalisation	4 Likely	
5 Death/Irreparable Injury	5 Certain	

<b>Science Oxford Risk Assessment</b>			<b>Severity</b>	<b>Likelihood</b>	<b>Risk Rating*</b>
<b>Hazard</b>	<b>Risk</b>	<b>Control Measures</b>			
Heating with flame	<b>Participants</b> Burns/scalding	<ul style="list-style-type: none"> <li>• Instructions given for appropriate use</li> <li>• The following parts will get hot: stand, cases, contents, lamp. Do not touch them. Use the peg to move case. Hold case with the peg before stirring. Use a wooden stick for stirring.</li> </ul>	2	2	4
	<b>Participants</b> Fuel spills and spreading flame	<ul style="list-style-type: none"> <li>• Sealed "liquid wax" candles are used. Spills are unlikely, but not impossible. Spilt fuel is not flammable itself, but leaks from a lit burner can ignite.</li> <li>• Heat-proof tiles should always be used</li> <li>• Presenter and volunteers should always be monitoring burners, and extinguish if safe, or move participants away if necessary. (But see below during COVID-19)</li> <li>• Visual inspection of burners before and after every session</li> </ul>	3	1	3
Heating liquids	<b>Participants</b> "Spitting" of hot liquid	<ul style="list-style-type: none"> <li>• Very small amounts of liquid heated at a time.</li> <li>• Safety goggles to be worn when heating</li> <li>• Adults to be asked to ensure goggles are always worn</li> </ul>	3	1	3
Heating solder	<b>Participants</b> Fumes may irritate nose and throat, eyes. Flux may spit	<ul style="list-style-type: none"> <li>• Only lead-free solder to be used.</li> <li>• Ensure adequate ventilation of room.</li> <li>• Only very small pieces of solder are heated.</li> <li>• No more than one piece should be used by each pair.</li> <li>• Safety goggles to be worn.</li> </ul>	2	1	2

Please use this risk assessment in conjunction with your own prior assessments and dynamic management of risk.



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Exposure to disease (such as COVID-19)	<b>All</b> Surface transmission from equipment	<ul style="list-style-type: none"> <li>School advised that pupils should wash hands before workshop</li> <li>Equipment provided per-pupil or in pairs if allowed by school's equipment sharing policy</li> <li>Equipment isolated for 72 hours after use or thoroughly cleaned between groups</li> <li>Presenter to sanitise hands before distributing equipment</li> <li>Any tables cleaned if to be re-used between groups</li> </ul>	3	2	6
	<b>All</b> Person to person transmission	<ul style="list-style-type: none"> <li>Presenter to remain at 2m distance at front of class</li> <li>Children to work alone, or in pairs if allowed by school policy</li> <li>Children to maintain distance where possible</li> </ul>	3	2	6
	<b>Participants</b> Burns, fuel spills and spreading flame	<ul style="list-style-type: none"> <li>Ordinarily, adult volunteers are used to monitor flames and manage lighters. To maintain social distancing, children will need to use their own lighters. Increased vigilance will need to be maintained by the presenter and classroom teacher.</li> </ul>	3	2	6

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