

# Risk Assessment – Fire/Great Fire of London

<b>Creator/Reviewer of Risk Assessment</b>	<b>Name</b> Ian Snell
	<b>Signature</b> 
<b>Next Review Date</b>	September 2024

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>			Severity	Likelihood	Risk Rating*
Hazard	Risk	Control Measures			
Use of fire	<b>Presenter</b> Burns from various flammables or heated objects	<ul style="list-style-type: none"> <li>Flammables to be held with tongs</li> <li>Heat resistant gloves to be worn when holding objects that get hot</li> <li>Presenter trained on safe use of a blowtorch</li> <li>Paper houses kept on heatproof mats, and lit at a single point</li> <li>Newspaper strips kept relatively small</li> <li>Teabag embers to be caught on small heat-proof mat</li> <li>Fire tornado to be kept on flat, stable surface, left to cool down</li> <li>Long "barbecue" style lighters to be used</li> <li>Sparklers to be disposed of safely if used                             <ul style="list-style-type: none"> <li>Dangers of hot sparklers to be explicitly explained to children</li> </ul> </li> </ul>	4	1	4
	<b>All, Venue</b> Fire started	<ul style="list-style-type: none"> <li>Table is covered by welding mat, with heat-proof mats on top</li> <li>All burning to be performed over heat-proof mats</li> <li>Presenter familiarises self with location of venue fire extinguishers</li> <li>Presenter to check location of smoke alarms</li> <li>Presenter inspects vicinity of presentation area, especially height of ceiling and anything hanging from ceiling</li> <li>Show <b>WILL NOT</b> proceed if presenter has unresolved concerns</li> <li>Fire extinguisher (powder) is carried with kit</li> <li>Fire blanket carried with equipment</li> <li>Spare fire blanket can be placed on floor in front of table if necessary</li> </ul>	5	1	5

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		<ul style="list-style-type: none"> <li>Fuels kept in separate sealed box when not in use</li> <li>Fuel containers always resealed after use and returned to sealed box                             <ul style="list-style-type: none"> <li>Fuel never left on demonstration table or near ignition sources</li> </ul> </li> <li>Blowtorch only ignited when explicitly in use</li> <li>Excess fuel/water mix allowed to drip from banknotes</li> <li>Extreme care taken in particular with banknote soaked in methanol                             <ul style="list-style-type: none"> <li>All excess fuel must be allowed to drip free</li> <li>Container of methanol sealed and kept clear of ignition sources</li> </ul> </li> <li>Custard powder fireball checked before show, audience kept at least 2m from demonstration, performed only in room with high ceiling</li> </ul>			
Use of balloons	<b>Presenter, Volunteer</b> Rubber shards going in eye	<ul style="list-style-type: none"> <li>Presenter to look away at point of burst, volunteer told not to look up.</li> </ul>	2	2	4
	<b>Volunteer</b> Latex allergy	<ul style="list-style-type: none"> <li>Volunteer is warned about use of balloon</li> </ul>	2	1	2
	<b>Volunteer</b> Getting wet if water balloon unexpectedly bursts	<ul style="list-style-type: none"> <li>Sufficient water in water balloon</li> <li>Blue roll available to mop up spills</li> </ul>	1	1	1
Use of copper chloride	<b>All</b> Copper chloride is toxic	<ul style="list-style-type: none"> <li>Small quantity used on watchglass, container stored safely</li> <li>Cleared away and surfaces wiped if there was any spillage</li> <li>Children not to be allowed access</li> </ul>	3	1	3
Use of fire piston	<b>Presenter</b> Slip and fall	<ul style="list-style-type: none"> <li>Use of carpet tile if venue surface poses slip risk</li> </ul>	2	2	4
Use of hazardous materials	<b>All</b> Various risks, as above	<ul style="list-style-type: none"> <li>No equipment to be left unattended at any point</li> </ul>	5	1	5
Exposure to disease (such as COVID-19)	<b>All</b> Person to person transmission	<ul style="list-style-type: none"> <li>Balloon demo to be done without audience volunteer</li> </ul>	3	2	5

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