

**Science
Oxford**
Part of THE OXFORD TRUST

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

Risk assessment – Fire Show/Great Fire of London

		o Dangers of hot sparklers to be explicitly explained to children			
	All, Venue Fire started	• Table is covered by welding mat, with heat-proof mats on top • All burning to be performed over heat-proof mats • Presenter familiarises self with location of venue fire extinguishers • Presenter to check location of smoke alarms • Presenter inspects vicinity of presentation area, especially height of ceiling and anything hanging from ceiling • Show WILL NOT proceed if presenter has unresolved concerns • Fire extinguisher (powder) is carried with kit • Fire blanket carried with equipment • Spare fire blanket can be placed on floor in front of table if necessary • Fuels kept in separate sealed box when not in use • Fuel containers always resealed after use and returned to sealed box - o Fuel never left on demonstration table or near ignition sources • Blowtorch only ignited when explicitly in use • Excess fuel/water mix allowed to drip from banknotes • Extreme care taken in particular with banknote soaked in methanol - o All excess fuel must be allowed to drip free - o Container of methanol sealed and kept clear of ignition sources • Custard powder fireball checked before show, audience positioned at least 2m from demonstration, performed only in room with high ceiling - o If anyone other than the presenter is closer than 2m, the demonstration will not take place	5	1	5
Use of balloons	Presenter, Volunteer Rubber shards going in eye	• Presenter to look away at point of burst, volunteer told not to look up	2	2	4
	Volunteer Latex allergy	• Volunteer is warned about use of balloon	2	1	2

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Risk assessment – Fire Show/Great Fire of London

	Volunteer Getting wet if water balloon unexpectedly bursts	- Sufficient water in water balloon - Blue roll available to mop up spills	1	1	1
Use of copper chloride	All Copper chloride is toxic	- Small quantity used on watchglass, container stored safely - Cleared away and surfaces wiped if there was any spillage - Children not to be allowed access CLEAPSS guidance attached here	3	1	3
Use of strontium chloride	All Strontium chloride is corrosive	- Small quantity used on watchglass, container stored safely - Cleared away and surfaces wiped if there was any spillage - Any contact with skin, washed thoroughly with soap and water - Contact with eyes or mouth, washed thoroughly and presenter will seek medical attention - Children not to be allowed access CLEAPSS guidance attached here	3	1	3
Use of fire piston	Presenter Slip and fall	Use of carpet tile if venue surface poses slip risk	2	2	4
Use of hazardous materials	All Various risks, as above	No equipment to be left unattended at any point	5	1	5

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