

Risk assessment – Changing State

Risk assessment last reviewed	Name: Matthew Page				Severity (S)	Likelihood (L)	Risk rating (S x L)	
	Job Title: Education Outreach Officer							
	Signature: 	Date: 28/08/2026						
Risk assessment last approved	Name: Lucinda Offer, Head of Science Communication						6-10 Medium	
	Signature: 	Date: 30/09/26						
Date of next review	August 2027						10+ High	
			1	Little or no harm/ Negligible impact	Unlikely	1-5 Low		
			2	First aid on site/ Minor impact	Possible	6-10 Medium		
			3	Qualified medical attention/ Moderate impact	Probable			
			4	Hospitalisation/ Serious impact requiring external agency involvement	Likely	10+ High		
			5	Death or irreparable injury/ Life-changing impact	Certain			
Hazard	Risk	Control measures				(S)	(L)	Risk rating*
Heating with flame	Participants Burns/scalding	- Instructions given for appropriate use - If considered appropriate, children will be issued with lighters. Clear warnings and instructions will be given and increased vigilance adopted. - If deemed not appropriate ahead of time, additional adults will be required. - The following parts will get hot: stand, cases, contents, lamp. These are not to be touched with participants hands. Use the peg to move case. Securely hold case with peg before stirring. Use wooden stick for stirring.				3	2	6

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

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	Participants Fuel spills and spreading flame	- 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 - Heat-proof tiles should always be used - Presenter and other adults should always be monitoring burners, extinguishing if safe, or moving participants away if necessary - Visual inspection of burners before and after every session	3	1	3
Heating liquids	Participants “Spitting” of hot liquid	- Very small amounts of liquid heated at a time - Safety goggles to be worn when heating - Adults to be vigilant and ensure safety goggles are always worn	3	1	3
Heating solder	Participants Fumes may irritate nose and throat, or eyes. Flux may spit	- Only lead-free solder to be used - Ensure adequate ventilation of room - Only very small pieces of solder are heated - No more than two pieces should be used by each pair - Safety goggles must be worn	2	1	2

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