

Risk assessment

Name of activity, event, and location	KABOOM!	Date of risk assessment	16/5/26	Name of person doing this risk assessment	Eilidh Morrison
		Date of next review	16 5 27		

What could go wrong? What hazard have you identified? What are the risks from it?	Who is at risk?	What are you going to do about it? How are the risks already controlled? What extra controls are needed? How will they be communicated to young people and adults and remain inclusive to all needs?	Review & revise What has changed that needs to be thought about and controlled?
<p>A hazard is something that may cause harm or damage. The risk is the harm that may occur from the hazard.</p>	For example: young people, adult volunteers, visitors	Controls are ways of making the activity safer by removing or reducing the risk. For example, you may use a different piece of equipment, or you might change the way you do the activity.	Keep checking throughout the activity in case you need to change what you're doing or even stop the activity. This is a great place to add comments which will be used as part of the review.
Hazard: slip, trips and falls Risk: wet grass, uneven ground, pumps/hoses	Scouts Explorers Leaders Leader kids	Debrief Scouts/explorers before getting stuck into the base if the grass under foot is wet and make it clear to walk, not run around the activity zones. Clear the area, make sure that all materials are tidy away under a table or in a secure corner. Mark out specific areas for the pumps and hoses.	
Hazard: manual handling and equipment set up Risk: strain from carrying water containers, pumps or heavy kit	Leaders	Leaders have a debrief remember session about the correct way to lift things. Make sure that two-people lift heavy objects like water buckets. Leaders to set up the "launch pad" so scouts do not carry heavy equipment. Keep equipment close to the activity area to avoid long carries.	
Hazard: sun exposure and heat Risk: sunburn, dehydration, heat exhaustion during long sessions	Scouts Explorers Leaders Leader kids	Make sure scouts have sunscreen on before we begin the session. Have a water station for drinking in the risk of dehydration (disposable cups – not great for the environment but is better for not spreading germs). Make sure part of the session is spent in the shade. Provide the scouts/explorers with short breaks to minimise exhaustion.	
Hazards: weather and ground conditions Risks: wet, muddy windy	Scouts Explorers Leaders Leader kids	Team leader to check the weather every morning on camp and have a debrief with KABOOM team about conditions. If the weather is rainy or there are high winds take activities inside the Kastle. Adjust launch angle to ensure rockets land in a safe area. Move activities when necessary if the ground becomes too slippery.	
Hazard: First aid access Risk: cuts, and scratches	Scouts Explorers Leader kids	Keep some plasters at the KABOOM! Site in case of minor first aid emergencies. For any other first aid emergencies one member of the Team will escort the scout/explorer to the first aid tent across camp.	
Hazards: Launching projectiles Risks: rockets firing sideways, hitting participants	Scouts Explorers Leaders Leader kids	Set up a launch zone making sure there is a clear space and no overhead obstacles. All spectators stand behind a marked line. This area will be moderated by leaders and only one rocket will be fired at one time. If there is a misfire scouts/explorers will wait about 60s before exploring what went wrong.	
Hazards: chemical exposure Risk: eye irritation, minor skin irritation and spills	Scouts Explorers Leaders Leader kids	PPE will be provided in terms of gloves and goggles for all participants. There will be wet wipes on standby for any accidental spills. Leaders will pre-measure ingredients to control the power of the chemical reaction.	

You can find more information in the [Safety checklist for Section Volunteers](#) and at scouts.org.uk/safety

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Hazards: Flammable liquids Risk: Burns, accidental ignition, fuel spill	Scouts Explorers Leaders Leader kids	Adults-only fuel handling, scouts to not touch the lighter fluid. The solution will be changed to hairspray which still have risks but not toxic to humans. While using the solution it must be used in short, controlled bursts. Keep the can well away from ignition sources after spraying. Make sure the solution is stored in a shaded area and never leave it near direct sunlight. Have a fire bucket on hand just in case.	
Hazards: Noise Risk: loud popping	Scouts Explorers Leaders Leader kids Other bases near by	Leaders to offer any of the scouts/explorers' ear defenders to Scouts/explorers. Leaders using ignition must wear ear protection and leader moderating this base will warn the group before hand.	
Hazards: Corrosive chemicals Risks: skin burns and eye irritation	Scouts Explorers Leaders Leaders Kids	Leaders to measure out NaOH to reduce spills and to avoid over use and PPE (gloves/goggles) will be provided to the scouts and explores. Make sure that heat-resistant glassware (conical flasks) is used for this experiment. To avoid splashes; add water before pellets. Water will be available to wash skin in the case of an emergency	
Hazards: Rapid hydrogen production Risks: pressure build-up can burst containers	Scouts Explorers Leaders Leaders kids	When fitting the balloon around the conical flask make sure that the balloon is lose to make a small gas outlet. Leaders remind scouts and explorers to keep face away from the flask opening. Use small quantities to limit reaction speed as well as conduct this experiment outside or in a well-ventilated area. Leaders are to test experiments at home before setting foot on site.	
Hazards: Ignition Risks: Burn risks	Scouts Explorers Leaders Leaders kids	Create a designated area for all flammables. Use a long lighter to create a bigger distance between the young person and the flame. Make sure scouts and explorers hold the balloon at arms length using a bamboo stick or string. Make sure fire buckets or blankets are available.	
Hazards: Enviromental Risks: Wind direction	Scouts Explorers Leaders Leaders kids Other bases near by	Team lead to check the wind direction before sessions so leaders can set up a safe place for the designated ignition zone.	
Hazards: Highly flammable vapour Risks: Vapour ignites before the flame reaches the said substance	Scouts Explorers Leaders	COSHH approved leader to Handel the solution and measure out to use minimal volume. When not in use keep the bottle sealed and at least 3-5m away from source. For this experiment make sure to use a long lighter and preform outdoors. Safety risks must be explained to scouts and explorers before hand.	
Hazard: Exothermal reaction Risk: burns when come in contact with surface	Scouts Explorers Leaders Leaders kids	During experiment participants stay behind designated line at lease 2-3m away to reduce probability of risk. Leaders to tell scouts and explorers how the experiment will be hot for a while after the flame is gone and not to touch.	
Hazard: young people act before told Risk: Entering unsafe zone, touching chemicals	Scouts Explorers Leaders kids	Team lead to do a safety brief before the young people step foot in KABOOM's Mission Control. Safety instructions should be step-by-step and not over complicated. Leaders to demonstrate experiment first before participants try. Visual cues will be used throughout base including cones, tape and signs.	

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Hazard: through traffic from other groups Risk: entering chemical zone, bumping tables	Scouts Explorers Leaders Leaders kids Any other helpers	Create "activity in progress" or "do not enter" signs when performing projectiles or experiments and Leaders to notify near by bases about safety concerns before activities commence. Roped off areas may be needed if signs do not provide sufficient safety to other groups.	
Hazard: Young people or other groups accessing chemicals Risk: Burns, misuse, accidental ignition	Scouts Explorers	Chemicals to be stored in a locked box for leader use only. Signs will be provided on the box and only leaders on KABOOM! Base will have the passcode for the locked box.	

Don't forget, as part of your programme planning, you should have contingency activities in reserve just in case you can't do what was planned or you need to stop half way through. Make sure this is shared with those involved, so everyone knows how to respond. You should have risk assessed contingency activities prior to them taking place and communicated key information to those involved as with all activities.

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