

➤ For Your Glove: Nuclear Contamination Demonstration

Activity	Nuclear Contamination	Demonstrator(s):	STEM ambassador(s)
Date		Venue:	
Event Organiser		Audience:	5 – 18-year-olds and their parents / carers/ teachers
Activity Description	This activity gets the audience to have a go at using the glove removal technique which is used by all nuclear workers to safely remove their contaminated gloves.		

Hazards	Control Measures
Allergies	The ambassador(s) will ask any attendees if there are any allergies that they should be aware of before the activity begins, particularly to the nitrile gloves.
Spillage of UV powder	Kitchen roll is available to clean up any minor spills. At most the likely spill amount will be about 1 g of UV powder. This can be cleaned up with kitchen roll and binned. For residues on the person’s hand, hand sanitiser will be on hand and the nearest hand wash point known. Judgement by ambassador(s) will be made whether audience can handle the stock UV powder and suggestion made to dispense this on behalf of the audience. Experiments are carried out at the table and not taken away.
UV powder ingestion	UV powder is to be handled by ambassador(s) and no more than roughly 1 g is to be given out per experiment. UV powder boxes are always under supervision of the ambassador(s).
UV powder – staining of clothing	UV powder is to be kept under supervision of the ambassador(s). Containers are to be kept closed when not in use. Kitchen roll is available to clean up spills. UV powder is non-toxic but may stain skin and clothes.
Waste	Used nitrile gloves are bulked into a bucket under the table. When this bucket is full an ambassador can dispose of this <i>via</i> household waste or whatever route is specified by the venue.
Injury – heavy weight	The black light can be heavy. There is a risk it could be dropped onto a foot. The experiment is run under supervision and the black light is to be handled with care. It is at the ambassador’s discretion if the participant can handle the light. Ambassador(s) are to emphasise this light is not to be shone in anybody’s eye.
Hazards	Control Measures

Slips, trips and falls	Good housekeeping to be maintained to remove potential trip, slip and fall risks. This activity requires movement. Ensure there is large enough area to perform the activity and there are no hazards nearby. The ambassador(s) should emphasise the importance of being aware of your surroundings.
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In addition to the above control measures, the following standard safety requirements should also be in place:

- Appropriate ventilation and hygiene facilities should be present.

Signature:

Print Name:

Date:

