

# Think Inside the Box: Glove Box Handling Techniques

<b>Activity</b>	Think Inside the Box: Glove Box Handling Techniques	<b>Demonstrator(s):</b>	STEM ambassador(s)
<b>Date</b>		<b>Venue:</b>	
<b>Event Organiser</b>		<b>Audience:</b>	11 – 18-year-olds and their parents / carers/ teachers
<b>Activity Description</b>	In a make-shift glove box participants will mix different 'solutions' (dyed water) together to make a target chemical. To simulate how radiochemists handle radioactive materials and solutions.		

Hazards	Control Measures
Allergies	Ambassador(s) should check they are not allergic to any of the materials used for the experiment. Particularly the latex gloves.
Manual handling	No heavy lifting is involved in experiments to help mitigate the risk of damage to property and person. Depending on the height of the user the STEM ambassador may want to locate a chair from the venue. Taller participants may benefit from sitting and doing the activity, so they do not have to crouch. Smaller participants may need to stand to reach the handles of the glove box.
Glassware hazards (glass column)	Evacuate audience from the area. Broken glassware is to be swept up and disposed of appropriately, <i>via</i> glass bin or however is specified by the venue. Appropriate PPE is worn (cut-proof gloves when cleaning broken glass). The box is taped to the table to prevent the glassware falling to the ground and shattering.
Spillages	Ambassador(s) to ensure the box is fastened to the table, before performing the activity. Should the contents of the conical flasks spill, clean it up quickly using the tissues provided. None of the contents are hazardous. The waste is not hazardous and can be disposed of <i>via</i> household waste or the route approved by the venue. Liquid waste can be disposed of down any sink.
Waste	If running the activity multiple times, a bucket can be used to store the waste after each run, before disposing of it in bulk. Dispose of the waste <i>via</i> household waste or the route approved by the venue. Liquid waste can be disposed of down any sink.
General hygiene	Hand wash stations should be available or the nearest handwash point be

	known. Antibacterial wipes and hand sanitizer are provided.
<b>Hazards</b>	<b>Control Measures</b>
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.

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.
- Due to the nature of the activity and materials used PPE is not required

Signature: .....

Print Name: .....

Date: .....