

Explorer Dome – General Risk Assessment Autumn 2021

Covid-19 update - We are currently taking bookings, delivering science shows and planning carefully with our hosts to keep our visits safe and sensible. Please be assured that we will always follow official guidance from both Government and the NHS to comply with current guidance and protect the welfare of our staff and our audiences.

September 2021:

- Our presenters monitor their personal health, take regular lateral flow tests, do not work when feeling unwell, self-isolate when required and follow the NHS Test & Trace programme. We actively encourage our presenters to receive their Covid vaccines and any potential future boosters at the earliest opportunity.
- When delivering physical visits, we will continue to practice enhanced hygiene and maintain appropriate distancing from our hosts and audiences. Given current guidelines, we prefer not to wear face coverings when presenting, but are happy to do so if requested and when moving around site
- Explorer Dome's planetarium domes are well-ventilated spaces, inflated by a high-velocity floor fan which remains on throughout the show and which can be positioned near open doors/windows as appropriate for fresh air; the audience sits on the venue's own floor which can be cleaned with anti-viral disinfectant between shows.

We're aware that the UK's situation may change and we have alternative options in the event that a physical dome visit is not appropriate:

- **Live, on-line delivery** of science shows and workshops where travel and/or physical visits are not advisable
- **Non-dome shows:** if we can visit you, but you'd rather not be in the dome, then we already have a range of chemistry shows available and will have assembly-style, non-dome alternatives for all of our dome shows to allow for social distancing

If you have any queries, please contact our team on 0117 914 1526 or information@explorerdome.co.uk

Hazard	Risk	Action	Risk Rating
Coronavirus / Covid-19	Risk of spreading infection within Explorer Dome team	<p>Explorer Dome presenters will practice enhanced hygiene measures, social distancing (where possible) and be vigilant to symptoms of covid-19 in themselves and other household members, self-isolating immediately when required to do so and complying with current test & trace guidance.</p> <p>Explorer Dome presenters will be actively encouraged to receive Covid vaccinations and boosters at the earliest opportunity.</p>	<p>Likelihood = 3 Severity = 3 Risk Rating = 9 (Low)</p>

Risk Rating = Likelihood x Severity of Consequences

Likelihood (1 = most unlikely, 5 = most likely)

Severity (1 = trivial injuries, 5 = major injuries)

		Equipment and vehicle cabs will be wiped down with disinfectant at the start and end of each day. Hand sanitiser to be used regularly especially in vans and during shows where two presenters are operating the same equipment	
Coronavirus / Covid-19	Risk of spreading infection within an audience group	<p>Explorer Dome is inflated by a high-velocity floor fan which remains on throughout shows and provides excellent air circulation. We will position the fan near open doors/windows where possible to draw fresh air into the dome and raise the fan settings to increase airflow, especially between shows.</p> <p>Audiences will be asked to practice enhanced hygiene measures: hand washing before and after shows, avoid touching the dome and associated equipment.</p> <p>We will provide our larger dome where practical to allow for increased social distancing between audience members.</p>	<p>Likelihood = 3</p> <p>Severity = 3</p> <p>Risk Rating = 9 (Low)</p>
Coronavirus / Covid-19	Risk of spreading infection between presenters and audience members or between different audience groups	<p>Risk levels will vary over time and with location so individual visits will be assessed on a case-by-case basis</p> <p>Schools will be given the option to have their sessions delivered online where a physical visit is considered inappropriate under current guidelines.</p> <p>Shows which would normally take place in the dome may be adapted so that a similar session can take place outside the dome to allow for greater social distancing and less physical contact with surfaces.</p> <p>Venues considered suitable for Explorer Dome should have minimal footfall to reduce contact between groups using the same space for other activities</p> <p>When arriving at a venue, presenters will wear face coverings, wash hands and liaise with school staff for appropriate practice during the day, bearing in mind current guidelines.</p> <p>When shows in the dome do take place, presenters will position themselves and the audience to maximise social distancing, especially between presenter and audience, taking into account local airflow patterns within the dome.</p> <p>Surfaces that are touched can be thoroughly disinfected between shows when required, e.g. tunnel entrance & interior/exterior floor where audience sit.</p>	<p>Likelihood = 2 - 4</p> <p>Severity = 1 - 5</p> <p>Risk Rating = 2 – 20 (Minimal - High)</p>

Risk Rating = Likelihood x Severity of Consequences

Likelihood (1 = most unlikely, 5 = most likely)

Severity (1 = trivial injuries, 5 = major injuries)

		<p>Hands-on demonstrations/activities will be adapted as appropriate or alternative activities provided, taking into consideration specific risk factors.</p> <p>Schedules will be adapted to allow for thorough cleaning of dome and equipment, and appropriate ventilation of venue between shows.</p>	
Coronavirus / Covid-19	Risk of spreading infection to vulnerable individuals	<p>Explorer Dome acknowledges that while Covid-19 is a mild disease for many, some are seriously affected and fatalities can and do occur, especially in vulnerable individuals with higher risk factors. It is also acknowledged that this is a new disease and our understanding of it will evolve over time. Where high-risk individuals (either presenters or visitors) are identified then we will advise not conducting a physical visit and running sessions online instead.</p>	<p>Likelihood = 3</p> <p>Severity = 5</p> <p>Risk Rating = 15 (medium)</p>
Online delivery of shows	Risk of contravening our Code of Conduct through recording or sharing of personal information	<p>Explorer Dome acknowledges its duties under the General Data Protection Regulations (2016/679), the Data Protection Act (DPA) 2018 and the Freedom of Information Act 2000. Our presenters will comply with their obligations under these Acts.</p> <p>All Explorer Dome presenters undergo an enhance DBS check and sign our Code of Conduct to ensure the professional standards we expect in order to uphold our company values and ethics and to protect vulnerable individuals and groups.</p> <p>We will never record online sessions or share any personal information or images without prior agreement and written consent from both host schools and individuals.</p>	<p>Likelihood = 2</p> <p>Severity = 3</p> <p>Risk Rating = 6 (low)</p>
The presenters and most members of the audience enter and exit the dome by crawling through a tunnel.	There is a minor trip hazard at the mouth of the tunnel.	<p>The presenters must crawl on hands and knees to prevent tripping.</p> <p>The presenters raise awareness of the trip hazard with everyone going in and going out and ask everyone to crawl on hands and knees through the tunnel and crawl until well clear of the tunnel on exit.</p> <p>A presenter is present at the mouth of the tunnel during entry and exit whenever possible. If a presenter is not available, an adult will be instructed how to aid entrance and exit avoiding trips.</p> <p>Where gym mats are available these can be laid out at the mouth of the tunnel and inside the dome to soften the floor as an extra precaution. Explorer Dome vehicles are equipped with 2 of these mats to ensure that this crash mat can be in place.</p>	<p>Likelihood = 3</p> <p>Severity = 1</p> <p>Risk Rating = 3 (Low)</p>
Fire or accidents and emergency evacuation.	Small risk that fire could start inside the dome though accident or deliberate action.	<p>Presenters are trained in the proper procedure during fire or for an emergency evacuation.</p> <p>The dome material is not flammable but fire extinguishers are to hand inside the dome</p>	<p>Likelihood = 1</p>

Risk Rating = Likelihood x Severity of Consequences

Likelihood (1 = most unlikely, 5 = most likely)

Severity (1 = trivial injuries, 5 = major injuries)

	The audience needs to be evacuated from the dome and it takes a few minutes for a full audience to leave the dome via the tunnel.	in case of emergency. In the event of an emergency, presenters ask the audience to remain calm and carefully move towards the centre of the dome and off the silver material of the dome sides. The dome has no floor, and both presenters can flip the dome over the heads of the audience and equipment. Exit is then immediate. Explorer Dome presenters should be the last to leave the dome and ensure that electrical equipment is switched off.	Severity = 3 Risk Rating = 3 (Low)
Unpredictable behaviour due to special educational or medical needs of the audience, claustrophobia etc. may result in members of the audience becoming unable or unwilling to continue.	Risk of unpredictable behaviour. The audience may need to be evacuated from the dome and it takes a few minutes for a full audience to leave the dome via the tunnel	Show can be stopped at any time and individual members can be moved or exit down the tunnel with the help of the presenters. If audience needs to leave quickly, presenters are trained in the proper procedure for an emergency evacuation (see below).	Likelihood = 3 Severity = 1 Risk Rating = 3 (Low)
Power cut	The majority of lights inside the dome and the dome fan itself run on electric supply from the mains. If there is a power cut the inflated dome will be pitch black and will start to deflate.	Presenters are trained in the proper procedure during power cut. 2 torches are always available in event of a black-out and presenters can calm down any worried or over-excited children. The dome takes a long time to deflate and the audience can leave the dome using the emergency evacuation procedure with no need for a rush.	Likelihood = 2 Severity = 1 Risk Rating = 2 (Minimal)
Low level lighting inside the dome.	Risk that darkness may cause audience members to become nervous. Risk that darkness may result in boisterous behaviour.	Two presenters inside dome maintain awareness of audience and their reactions at all times. At least one teacher or adult who knows the children is always asked to be present at all times during presentations. Lights can be brought up at any time and children can move to sit closer to teachers or where they feel safe. Extra lights are available for nervous children and lights are kept on if children are over-excited, boisterous or frightened in the dark. Members of the audience can leave the dome at any time if necessary.	Likelihood = 4 Severity = 1 Risk Rating = 4 (Low)

Risk Rating = Likelihood x Severity of Consequences

Likelihood (1 = most unlikely, 5 = most likely)

Severity (1 = trivial injuries, 5 = major injuries)

Walking around the darkened dome during the presentations.	Trip hazard due to audience and equipment.	Once seated only selected volunteers and presenters move around the dome during the show. Presenters ensure that movement of volunteers is directed and there is enough space and time for them to move safely. At the start of the show and through-out the show if necessary, the audience is asked to keep the relevant spaces and walkways clear. Presenters ensure that the dome is not over-crowded If audience members need to enter or leave the dome, lights may need to be brought up and a presenter must assist the entrance or exit.	Likelihood = 3 Severity = 1 Risk Rating = 3 (Low)
Hands-on demonstrations using volunteers.	Demonstration risks are assessed separately – see attached sheets if appropriate		

Risk Rating = Likelihood x Severity of Consequences

Likelihood (1 = most unlikely, 5 = most likely)

Severity (1 = trivial injuries, 5 = major injuries)

Likelihood of Occurrence	Severity of Consequences				
	1. Minor Injuries [No lost time]	2. Significant Injury [up to 7 Days]	3. Serious Injury [7 Day Injury]	4. Major Injury	5. Fatality
1. Very unlikely [hasn't occurred before]	1	2	3	4	5
2 - Slight [rarely occurs]	2	4	6	8	10
3 - Feasible [possible, but not common]	3	6	9	12	15
4 - Likely [has before, will again]	4	8	12	16	20
5 - Very Likely [occurs frequently]	5	10	15	20	25
Risk Rating: Likelihood * Severity	Minimal 1-2	Low 3-9	Medium 10-15	High 16-20	Extreme 25

Score 1-3 Minimal Risk - Maintain Existing Measures
Score 3-9 Low Risk - Review Existing Measures
Score 10-15 Medium Risk - Improve Control Measures
Score 16-20 High Risk - Consider Stopping Activity
Score 25 Extreme Risk - Do Not Proceed

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