#### Eureka Logo Final ALL BLACKRisk Assessment Form

| **Equipment / Activity / Area being assessed** | The Energy Show | **Risk Assessment No** | **ED-I265** |
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| **Location** | Eureka! Studio theatre or Imagination Space | **COSHH assessment** | Propan-2-ol |
| **Who is exposed?** | Presenters and Audience Members from schools groups | | |
| **Date of assessment** | February 2022 | | |
| **Assessor’s name and job title** | Jenny Parker – Play & Learning Manager | | |

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| **Risk = Likelihood of injury x Severity of injury** | **R = L x S** | **Low risk = 0 – 6** | **Medium risk = 7 - 12** | **High risk = 13 - 25** |

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|  | | **S = Severity of injury** | | | | | |
| **No injury or illness (0)** | **Minor injury or illness (1)** | **First aid injury or illness (2)** | **“3 day” injury or illness (3)** | **Major injury or illness (4)** | **Fatality, disabling**  **injury, etc (5)** |
| **L = Likelihood of injury** | **Zero to very low (0)** | 0 = Low | 0 = Low | 0 = Low | 0 = Low | 0 = Low | 0 = Low |
| **Very unlikely (1)** | 0 = Low | 1 = Low | 2 = Low | 3 – Low | 4 = Low | 5 = Low |
| **Unlikely (2)** | 0 = Low | 2 = Low | 4 = Low | 6 = Low | 8 = Medium | 10 = Medium |
| **Likely (3)** | 0 = Low | 3 = Low | 6 = Low | 9 = Medium | 12 = Medium | 15 = High |
| **Very likely (4)** | 0 = Low | 4 = Low | 8 = Medium | 12 = Medium | 16 = High | 20 = High |
| **Almost certain (5)** | 0 = Low | 5 = Low | 10 = Medium | 15 = High | 20 = High | 25 = High |

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|  | **Hazard** | **Control Measures already in place to control the risk** | **What additional Control Measures are required?** | **Risk rating (High, Medium, Low)** | **Completed/ Escalated to:** |
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| 1 | General room set up:  Props on tables could present trip hazard. | Those stated in Electrical RA & General Electrical Precautions risk assessment   1. Any props and resources to be set up to minimise hazards and placed at suitable distance from the audience. 2. Fire exits to be kept clear at all times. 3. First aider on site at all times during museum opening hours. | Parents/guardians/teachers to remain in close supervision of the children in their care at all times. | L = 1  S = 1  R = 1  **Low Risk** | P&L Team/Duty VSM |
| 2 | Unsupervised room | ***Imagination Space*** – door must be locked at all unstaffed times  ***Theatre*** – both doors must be locked at all unstaffed times. High risk items to be stored in projection room during break periods.  Overnight, equipment should be packed away and returned to projection room.  Hazardous chemicals to be stored in COSHH cupboard upstairs when not in use. Key to the cupboard to be signed out and in by JP or DM. | All staff to be vigilant in making sure Imagination Space & Theatre doors are locked when room not staffed.  To be checked by Duty VSM daily. | L = 2  S = 4  R = 8  **Medium Risk** | P&L Team/Duty VSM |
| 3 | Throwing a ball | Under arm throw only without much effort behind it to prevent injury to other enabler. |  | L = 2  S = 2  R = 4  **Low Risk** | P&L Team/Duty VSM |
| 4 | Noisemaker | Enablers to ensure that when spinning the noisemaker at high speed they are holding it far enough from their face. |  | L = 2  S = 2  R = 4  **Low Risk** | P&L Team/Duty VSM |
| 5 | Volunteers | Volunteers to be guided around any trip hazards present when making their way up to stage.  Volunteers to be given clear instruction by the Enabler doing the demonstration.  All demonstrations involving volunteers assessed for risk beforehand and enablers trained on risks. |  | L = 1  S = 1  R = 1  **Low Risk** | P&L Team/Duty VSM |
| 6 | Energy Stick | Stick is low power so no effect from electric current passing through body of staff and visitors. |  | L = 0  S = 0  R = 0  **Low Risk** | P&L Team/Duty VSM |
| 7 | Chocolate Bar | Plain chocolate bar so allergies should not be a concern.  Chocolate bar not to be eaten by enabler, it may have been in the box for a while (it’s only a prop). |  | L = 2  S = 1  R = 2  **Low Risk** | P&L Team/Duty VSM |
| 8 | Elastic band pinging | Enabler to be careful when pinging the elastic band that the other enabler isn’t facing them to prevent eye injury.  Elastic band to be immediately picked up so an audience member doesn’t pick it up |  | L = 2  S = 2  R = 4  **Low Risk** | P&L Team/Duty VSM |
| 9 | Elastic band plane | Throwing width of theatre to minimise risk of hitting audience.  Audience will be aware of plane being thrown and directed to keep an eye for an errant throw by the volunteer. |  | L = 3  S = 2  R = 6  **Low Risk** | P&L Team/Duty VSM |
| 10 | Steel balls igniting paper | Enabler to be only one to hold balls, as heavy and would hurt if dropped.  Enabler will have practised beforehand to ensure that potential to catch fingers when hitting the balls together is minimised.  Volunteer to hold sheet of paper well away from their body, and where the balls will connect. | Eye protection to be worn and balls cleaned beforehand to ensure no paper residue is left on them. | L = 2  S = 2  R = 4  **Low Risk** | P&L Team/Duty VSM |
| 12 | Magnetic Chain Reaction | End of chain reaction to be facing away from any people. Enabler not performing demonstration will be at other end of reaction.  Fingers to kept away from the reaction as it goes to stop finger trapping. |  | L = 1  S = 2  R = 2  **Low Risk** | P&L Team/Duty VSM |
| 13 | Fireballs | Lighter to be kept away when not in use.  Bottles containing propanol to be kept in a box when not in use.  Bottles to be clearly labelled with contents.  Lighter to be held well away from body when spraying the propanol.  Enablers to be trained on correct procedure for performing demonstration safely. | Protective clothing (lab coat) and lab glasses to be worn. | L = 2  S = 4  R = 8  **Medium Risk** | P&L Team/Duty VSM |
| 14 | Basketball and Tennis Ball | Tennis ball is only one with risk of flying off with added energy, quite small and light so risk is minimised.  Visitors will be warned to watch out before demonstration is performed in case of tennis ball flying over the audience. |  | L = 2  S = 1  R = 2  **Low Risk** | P&L Team/Duty VSM |
| 15 | Catalogue Tug of War | Extremely unlikely catalogues will come apart when pulled so risk of volunteers falling over because of it very low.  An enabler will be on each team to guide the volunteers when pulling. |  | L = 1  S = 2  R = 2  **Low Risk** | P&L Team/Duty VSM |
| 16 | COSHH Substances | Only Eureka! presenters handle the relevant substances  When not part of labelled demonstration kit, kept in original containers for identification.  Copies of safety data sheets kept in master file | Copies of safety data sheets & RA kept in folder in box with all workshop resources | L = 2  S = 4  R = 8  **Medium Risk** | P&L Team/Duty VSM |

**Sign-off of risk assessment**

| **Reviewed by Operations Team on:** | 18/02/18 |
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| **Next Review date:** | Next time activity takes place |

**Signed by members of the delivery team:**

| **Name** | **Signature** | **Date** |
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