

**General Risk Assessment Form**

| Date:<br>19/10/2019  | Assessed by:<br>Jennifer Claydon | Validated by: Linda<br>Bennett | Location: Events Space (Space<br>Pavilion) or Wolfson auditorium   | Assessment ref no:<br>2019JBDC0913 | Review date:<br>19/10/2020 |
|--|----------------------------------|--------------------------------|--|------------------------------------|----------------------------|
| Task / premises: <b>Life of Stars</b> education workshop, for KS4 students and above (ages 14+). Involves presenter demonstrations and practical activities. This document describes activities specific to this workshop; please also see 'General risk assessment for all workshops' which also applies. |                                  |                                |  |                                    |                            |
| Activity   | Hazard                           | Person(s)<br>in danger         | Existing measures to control risk  | Risk<br>rating                     | Result                     |
| Lighting a<br>balloon filled<br>with hydrogen<br><br>[Please note<br>this<br>demonstration<br>depends on the<br>availability and<br>accessibility of<br>hydrogen: it<br>may not be<br>possible for<br>every<br>workshop]   | Fire & burns                     | All                            | <ul style="list-style-type: none"> <li>Balloon to kept at least 2 metres from audience or any flammable material</li> <li>Splint to be lit away from balloon</li> <li>Balloon to be lit at arm's length, using splint attached to wooden pole</li> <li>Fire extinguisher in room</li> <li>Activity will only be carried out in the Events Space or Wolfson auditorium (large spaces with high ceilings)</li> <li>First aiders always available on site</li> <li>Fire marshal always available in building</li> </ul> | LOW                                | A                          |
|  | Loud noise                       | All                            | <ul style="list-style-type: none"> <li>Advise the audience of a loud bang and cover ears if necessary</li> </ul>   | LOW                                | A                          |
| Building<br>models of<br>atomic nuclei<br>using Lego<br>bricks   | Choking                          | Students                       | <ul style="list-style-type: none"> <li>Children aged 14+ are unlikely to attempt to ingest bricks</li> <li>Workshop is not suitable for, and will not be delivered for, SEN groups</li> </ul>  | LOW                                | A                          |
|  | Slipping/standing<br>on bricks   | All                            | <ul style="list-style-type: none"> <li>All students and presenter will be wearing shoes</li> <li>Students will be instructed to pick up any dropped objects</li> </ul>   | LOW                                | A                          |
|  | Being hit by a<br>projectile     | All                            | <ul style="list-style-type: none"> <li>Students will be instructed not to throw objects around during introduction; any students observed throwing Lego to be challenged</li> <li>Objects are small and lightweight, unlikely to cause injury</li> </ul>   | LOW                                | A                          |

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| Dropping<br>tennis ball and<br>basketball<br>together  | Being struck by<br>ball.   | All                            | <ul style="list-style-type: none"> <li>• Test experiment beforehand to find sensible height to drop the balls from, the lower the better</li> <li>• Drop at least 2m from audience</li> <li>• Drop at arm's length</li> <li>• Warn audience to watch the ball as it bounces up</li> <li>• Activity will only be carried out in the Events Space or Wolfson auditorium (large spaces with high ceilings)</li> </ul>   | LOW                                | A                          |
| Dissolving<br>Styrofoam in<br>acetone  | Eye damage or<br>skin irritation from<br>Acetone (please<br>see Material<br>safety Data Sheet<br><a href="#">here</a> . Chemical<br>number<br>A/0560/15) | Presenter                      | <ul style="list-style-type: none"> <li>• Presenter to wear gloves and goggles when filling container with acetone</li> <li>• Container (which is a film canister) to be at most half full</li> <li>• Demonstration to be done with a space of at least 1 metre away from audience</li> <li>• Demonstration involves placing objects into acetone – should be no physical contact with acetone</li> <li>• Anyone getting acetone on skin should rinse under cold water for 15 minutes – bathrooms nearby</li> <li>• Acetone disposed by absorbing into tissue and then throwing into bin (not poured down drain)</li> </ul> | LOW                                | A                          |
|  | Fire   | All                            | <ul style="list-style-type: none"> <li>• Acetone will be kept away from open flames or hot surfaces</li> </ul>   | LOW                                | A                          |