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| Assessment of: | Rocket Launch | | |
| Location: | Mount Cook | Date of assessment: | February 2022 |
| Completed by: | Bernard Mueller | Expiry Date: | February 2023 |

| Hazard (something with the potential to cause harm) | Risk (how could the hazard cause harm, and who could it harm) | Control Measures (what is required to reduce the risk) | In Place (Y/N) | Action Required | Action Owner | Residual Risk (assuming all controls in place; Low, Med, High) |
|---|--|--|--------------------------|---|---------------------|--|
| Manual handling (activity set-up) | To Staff, volunteers: Risk of muscle injuries to staff, strains and bruising. | <ul style="list-style-type: none"> Only carried out by staff trained in manual handling. Ask for assistance if required. | Y Y | Manual Handling training | Centre Mgr. | LOW |
| Mis-use of the equipment | To staff, Volunteers, participants: Risk of Minor injury/ bruises/ eye injuries, strangulation and death | <ul style="list-style-type: none"> Safety instructions given from staff at start. Equipment only given once safety talk briefed out. Constant vigilance by trained leaders. | Y Y Y | Staff training to be logged on Cinolla | Activity Mgr. | LOW |
| Bent over to pump air in to rocket. | To Staff, Volunteers: Risk of Muscle & impact damage to user and risk to other participants | <ul style="list-style-type: none"> Equipment checked by trained leaders prior to use. Safety brief given to all people before undertaking the activity | Y Y Y | Staff to not over - exert themselves whilst pumping air | Activity Mgr. | LOW |

Low = Slight injury or minor ill health / It is highly unlikely that the harm would occur

Medium = Serious Injuries or significant health effects / There is a likelihood that harm may occur;

High = Major death, major injury (RIDDOR) or irreversible health damage / There is a high likelihood that harm will occur.

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| Inadequate supervision of scissors, etc. | To Participants and staff: Risk of cuts, stabbing eye injuries- leading to blood loss, shock and death. | <ul style="list-style-type: none"> ▪ Ratio of leaders to participants controlled to effectively manage the group. ▪ Safety brief given to all participants taking part in the activity. ▪ Ask teachers/ adults to help supervise the group. ▪ Only safety scissors provided with no sharp pointed end | Y Y Y Y | Instructors to monitor group Group sizes and leader ratio's to be relayed to group in advance. | Activity Mgr. Booking Coordinators | LOW |
| Trips/Falls whilst participating | To All: Risk of Minor Injuries/ bruises, cuts. | <ul style="list-style-type: none"> ▪ Safety talk at the start to outline potential trip hazards ▪ Adequate supervision of the groups ▪ Clear area of trip hazards at start of session | Y Y Y | Staff training to be logged on Cinolla | Activity Mgr. | LOW |
| Bottle exploding | To Participants, staff and Volunteers: Risk of Flying debris- Minor Cuts, eye injuries leading to blindness | <ul style="list-style-type: none"> • Check bottle for cracks and other damage before use. • Only use 2L "fizzy drink" bottles (coke, Fanta, etc) not bottles for still drinks which are not (always) suitable for pressurising. • Ensure participants at least 10m away from launch site • Ensure staff, volunteer is turned side on to bottle to reduce chance of facial injuries. • Instructor to be at least 2m from rocket – using full length of air tube. | Y Y Y Y Y | Staff training to be logged on Cinolla | Activity Mgr. | LOW |
| People being hit with bottle rocket | To All: Risk of impact injuries, eye injuries and bruising. | <ul style="list-style-type: none"> • Keep participants at least 10m away from rocket launch site • Ensure the rocket is pointed vertical during launch • Ensure that the person pumping the water rocket is at least 2m away | Y Y Y Y | Staff training to be logged on Cinolla | Activity Mgr. | LOW |

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| | | <ul style="list-style-type: none"> Locate the experiment sensibly - bear in mind roads, other groups, etc Check wind direction and speed prior to launch | Y | | | |
| Food poisoning from raw egg | To All: risk of ingestion of raw egg, poisoning | <ul style="list-style-type: none"> Safety brief to ensure participants handle egg safely Do not let participants to touch any broken eggs Instruct to wash hands after the session | Y Y Y | Staff training to be logged on Cinolla | Activity Mgr. | LOW |
| Skin irritation from expose to broken glow sticks | To All: risk of exposure to the chemical inside a glow-sticks due to breaking outer layer. | <ul style="list-style-type: none"> Safety brief to ensure participants handle glow sticks correctly and do not cut. Do not let participants to touch any broken glow sticks. Wash off immediately in the event of any skin contact with the chemical. | Y Y Y | Staff training to be logged on Cinolla | Activity Mgr. | LOW |

Risk Assessment checked by H&S or Line Manager

Name: Steve Turner CEO

Date: 14th February 2022

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