

Risk Assessment – Water Rockets/Rocket Cars


Creator/Reviewer of Risk Assessment	Name Ian Snell
	Signature 
Next Review Date	January 2021

Severity	Likelihood	Risk Rating* (S x L)
1 No or Little Harm	1 Unlikely	1-5 Low
2 Minor/First Aid	2 Possible	6-10 Medium
3 Medical Attention	3 Probable	10+ High
4 Hospitalisation	4 Likely	
5 Death/Irreparable Injury	5 Certain	

Science Oxford Risk Assessment			Severity	Likelihood	Risk Rating*
Hazard	Risk	Control Measures			
Launching rockets upward	Everyone Being hit by a rocket	<ul style="list-style-type: none"> Rockets only to be launched by a responsible adult or a child supervised 1-to-1 by a responsible adult. All observers to stand a safe distance (at least 15m) away from the launch area. Do not launch if the weather is windy (in excess of 20mph). In the case of a rocket tipping over while the pumping is being carried out, pumping should cease immediately. The rocket should only be approached by a responsible adult and from the rear (nozzle end), such that if it were to launch whilst on the floor the rocket would move away from the person. Place barrier between rocket and launcher in case of rocket tipping over. 	3	1	3
Launching rocket cars	Everyone Being hit by a rocket car	<ul style="list-style-type: none"> Rocket launches to be supervised, clear instructions given. Observers to stand off to the side. Observers instructed not to enter until all rocket cars launched. 	2	1	2
Use of water	Everyone Slip hazard	<ul style="list-style-type: none"> Have paper towels ready to mop up spillages if indoors. Use of funnel to minimise spills Responsible adult to fill bottles 	2	2	4

Please use this risk assessment in conjunction with your own prior assessments and dynamic management of risk.

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Exposure to disease (such as COVID-19)	All Surface transmission from equipment	<ul style="list-style-type: none"> • School advised that pupils should wash hands before workshop • Equipment provided per-pupil, to work alone instead of in a group <ul style="list-style-type: none"> ◦ Each child to make a rocket, but only a selection to be launched • Equipment isolated for 72 hours after use • Presenter to sanitise hands before distributing equipment • Any tables cleaned if to be re-used between groups • Teacher (or class) to designate maximum 6 bottles to be filled and launched • Presenter to fill bottles, sanitising hands between launches • Only presenter to fit connector and launch rockets, sanitising hands between launches 	3	2	6
	All Person to person transmission	<ul style="list-style-type: none"> • Presenter to remain at 2m distance at front of class • Children to work alone with discussion between individuals • Children to maintain distance where possible • Rocket dropoff point (for filling and launch) to be clearly designated 	3	2	6

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