

DEVON SCIENCE

Risk Assessment

Risk Assessment for : Circuits & Van de Graaff		Risk Assessment Number : 9			
Location : Various - indoors		Assessed by : RUTH MACLAREN	Page	1	of 1
Activities Assessed: electricity workshops & van de graaff generator		Date : 20/5/25	Review date: 20/5/26		
Hazards Identified	People at risk	Controls & Precautions/ Already in place to reduce risk level	SR	LR	RR
Batteries – AA, AAA & D type used. low voltage.	FACILITATOR/ PUPILS	Do not eat, get wet. In “playdoh circuits” do not apply LED legs directly on 9V terminals to avoid overheating and breaking LED	1	2	2
Crocodile clips – may pinch skin	FACILITATOR/ AUDIENCE	Ask pupils to take due care	1	2	2
LEDs – small part & sharp legs		Do not ingest, if LEDs legs break off then dispose of broken LEDs			
Van de graaff generator – high static charge.	FACIATATOR	<ul style="list-style-type: none"> Only used by trained workshop leader. Check electrical cables are not damaged before use. VdG interrupts pacemaker/cochlear implants, and people with these must not touch the machine. No one to touch machine whilst its running due to risk of shocks that can be painful but not life threatening. Shock will make the person jump back, or shout, potentially causing more danger around them. Community events/Home-ed classes - parents can confirm if child has/has not an implant, then child can do the hair raising demo, so long as instructor is trained to support this activity safely. Keep mobile devices away. Keep loose and dangling items away from moving belt. 	5	1	5

Assessor's Name & signature : 	Date : 20/5/25
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SR : Fatality = 5; Major inj = 4; 3-4 days off = 3; 1 day of =2; First aid only = 1 No personal inj = 0	LR : Frequent = 5; Probable = 4; Possible = 3; Remote = 2; Unlikely = 1	RR = SR x LR
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