Risk Assessment for School Science Activities

Name and nature of activity	Handling dry ice (solid carbon dioxide)			
Location and date of activity				
Name of teacher/technician	Science ASSIST example risk assessment			
Activity type	☐Technician procedure ☐Teacher demonstration ☐Student activity – Student year group			
Physics and general equipment	Type of hazard		Controls and other r	neasures
NA	 Radiation ionising laser Electrical Thermal Projectiles Sharps Other - 		 Relevant signage Perspex safety shield Sharps container Glassware free from cracks or chips Safety glasses Thermally insulated gloves Other – 	
Chemicals used and produced	Type of hazard		Controls and other measures	
Carbon dioxide (solid and gas)	Explosive Explosive Flammable Oxidising Gases under pressure	Acute toxicity Acute toxicity Acute toxicity Acute toxicity Chronic health hazards Chronic health	 ☐ Limit quantity/concer ☐ Perspex safety shield ☐ Ventilation: natural/ei ☐ Fume cupboard ☑ Safety glasses ☐ Laboratory coat/apro ☐ Gloves: latex/nitrile/n ☐ Safety shower ☑ Other – Tongs, therm insulated storage contail lid. Do NOT place in a sealed 	d xhaust eoprene/PVC nally insulated gloves, ner with a loose fitting
Biological/geological materials used	Type of hazard		Controls and other measures	
NA.	Biohazard Dust/aerosols Sharps Manual handling Other –		 Steriliser Disinfectant Sharps container Dust mask Safety glasses Gloves Other – 	
Waste produced	Waste disposal procedure			
Unused dry ice. Carbon dioxide gas.	 Pre-treatment of waste – Sink with water – Regular waste – Licenced hazardous waste company – Other – Allow unused dry ice to sublime in a well-ventilated area. 			
Standard Operating Procedures				
 I have read the relevant Standard Operating Procedure. I am experienced/trained in using all the equipment listed. All chemicals used and produced are approved for use. I have read the current SDSs for all hazardous chemicals used and produced. I am aware of safety guidelines for using all chemicals, materials and equipment. I will follow local guidelines for waste disposal (water authority, local council, EPA). I am aware of first aid procedures if required. 				
Conclusion:				
 Risks not significant now and not likely to increase. Risks significant but effectively controlled at the moment. Risks significant and not adequately controlled at the moment. Uncertain about risks; more detailed assessment required. 				
Assessment carried out by: Science ASSIST	Signature:			Date: May 2016
Assessment approved by:	Signature:			Date:
Next assessment due:				
This Risk Assessment assumes that the activity will be conducted in a science teaching area with the following facilities: electricity, running water, emergency shut-offs for electricity, gas if applicable, and water, regular testing and tagging of portable appliances; emergency contingencies such as evacuation/emergency plans, appropriate fire extinguishers, spill kits, hand washing facilities, eyewash/safety shower and first aid supplies. It is also assumed that all the necessary licencing requirements and approvals are obtained prior to the activity.				

