Risk Assessment for School Science Activities

Name and nature of activity	Using a laser	
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 measures
Lasers	 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 – See comments below
Chemicals used and produced	Type of hazard	Controls and other measures
NA	Explosive Explosive Acute toxicit Acute toxicit	Ventilation: natural/exhaust Image: Subscript of the system Ith Ith <t< th=""></t<>
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
Waste produced	Waste disposal procedure	Other –
NA	Pre-treatment of waste – Sink with water – Regular waste – Licenced hazardous waste company – Other –	
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. 		
Other comments: Controls: Limit to Class 2 Lasers; do not shine a laser at or near persons, do not dismantle lasers, do not use optical aids to view a laser beam. When not in use lasers should be stored in a locked cupboard. Lasers classified as Class 3R/ 3A, may only be used subject to gaining school permission and following good safety practices. If the class of any laser is not clearly identified then it should not be used.		
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 ASSIS		
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.		

