Risk Assessment for School Science Activities

Name and nature of activity	Performing a heart dissection			
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 n	neasures
PPE (Lab coat/apron, safety glasses and gloves Dissecting board Dissecting instruments: Forceps, Probe, Scissors, Scalpel (optional) Paper towel Newspaper	 □ Radiation A ionising Iaser □ Electrical □ Thermal □ Projectiles ⊠ Sharps □ Other - 		 Relevant signage Perspex safety shield Sharps container Glassware free from of Safety glasses Thermally insulated g Other – Only staff att blades, using safe procedisposable scalpels. See 	cracks or chips loves ach/remove scalpel dures or use e extra comments below
Chemicals used and produced	Type of hazard		Controls and other measures	
Disinfectant – hospital grade, diluted according to manufacturer's instructions (Corrosive) 70% v/v ethanol (flammable)	Explosive Explosive Flammable Oxidising Gases under pressure	 Acute toxicity Health hazards Chronic health hazards Chronic health hazards Environmental Other – 	 Limit quantity/concent Perspex safety shield Ventilation: natural/ex Fume cupboard Safety glasses Laboratory coat/apror Gloves: latex/nitrile/ne Safety shower Other – 	tration thaust n eoprene/PVC
Biological/geological materials	Type of hazard		Controls and other n	neasures
Fresh sheep, cow or pig heart	 ⊠ Biohazard □ Dust/aerosols ⊠ Sharps □ Manual handling □ Other – 		 ☐ Steriliser ☑ Disinfectant ☑ Sharps container ☐ Dust mask ☑ Safety glasses ☑ Gloves ☑ Others 	
Waste produced	Waste disposal procedure			
Dissected animal tissue (hearts) (bin) Used disinfectants (sink) Used or damaged scalpel blades (sharps container)	 Pre-treatment of waste – All parts of the heart must be wrapped in newspaper and placed in a dedicated garbage bag. When waste material is collected double bag for disposal in industrial bin. Sink with water – Used disinfectants Regular waste – Dissected animal tissue (hearts) Licenced hazardous waste company – Other – Used/damaged scalpel blades must be placed in an approved sharps container after use. 			
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: Note that fainting may occur during this type of activity, so be familiar with first aid information. Offal that has passed a health inspection by a health inspector or procured from a butchers shop, abattoir or biological supplier is suitable for dissection. Store below 5°C prior to dissection. Use dissection scissors, instead of scalpels for students whenever possible.				
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 AS	SIST Signature: Date: Sep			Date: Sept 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.				

