

**RISK ASSESSMENT – A PIRATE ADVENTURE ACID/ALKALI EXPERIMENT**

ACTIVITY:	<b>ACID/ALKALI INDICATOR CABBAGE JUICE</b>	DATE:	25.5.17
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PERSONS AT RISK- AFFECTED BY ACTIVITY:	Persons attending the workshop	NUMBER	0 - 20
ANY VULNERABLE PERSONS AFFECTED BY ACTIVITY:	Children	NUMBER	0 - 20

POTENTIAL HAZARDS		Assessment of Risk		
REF.		Low	Med	High
1	Possible allergy to cabbage juice, vinegar, bicarbonate of soda or washing powder	x		
2	Using red cabbage, vinegar, bicarbonate of soda and washing powder – risk of ingestion, irritation to eyes, skin or respiratory tract	x		
3	Using red cabbage, vinegar, bicarbonate of soda and washing powder – risk of spillage and causing slip hazard	x		

EXISTING CONTROL MEASURES
1. Ask parents if children are allergic to red cabbage, vinegar, bicarbonate of soda or washing powder before commencing. If they are remove this ingredient from the experiment for that child. All children should wear lab coats and safety glasses to reduce the risk of contact with the chemicals.
2. Risks are minimal all chemicals are being used in very low amounts. Experiment should be carried out in a well ventilated room. Spillages should be cleaned up where possible with a dustpan and brush or damp cloth. Skin irritation can be helped by washing the area with warm soapy water. An eye wash or water should be available and used if any chemical gets in an individual's eyes. Eyes should be rinsed for at least 15 minutes with water or eye wash. All chemicals can be disposed of in standard waste. Individuals should wear lab coats and eye protection to avoid contact of salt with eyes or skin. Chemicals will be aliquoted into beakers before the experiment starts to avoid the risk of spillage. Any potential trip hazards should be removed from the area.
3. A first aider should be present at all times in case of an accident.
4. A first aid kit should always be available in case of an accident.

INITIAL ASSESSMENT OF OVERALL RISK	LOW	X	MEDIUM		HIGH	
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RISK RATING = SEVERITY x LIKELIHOOD		
Rating	SEVERITY of injury/disease	LIKELIHOOD of occurrence
HIGH	Fatality; major injury or illness causing long term disability	Certain or near certain to occur
MEDIUM	Injury or illness causing short term disability	Reasonably likely to occur
LOW	Other injury or illness	Unlikely to occur

ADDITIONAL CONTROL MEASURES - (IF APPLICABLE)	PERSON RESPONSIBLE FOR IMPLEMENTATION	COMPLETION DATE
None required		

RESIDUAL ASSESSMENT OF OVERALL RISK	LOW	X	MEDIUM		HIGH	
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Note: Re-assessment required if overall residual risk is High

<b>ADDITIONAL INFORMATION:</b> (Notes, comments, further details, outline procedures, safe systems of work, standards, drawings, etc.)			
In this section of the workshop individuals will be using red cabbage to test for acids and alkalis. There is a very low risk from the chemicals being used. Various measures are in place to keep the risk to a minimum. This includes checking to see whether the children are allergic to any chemicals used in the experiment, ensuring the area is well ventilated, use of appropriate safety clothing, providing equipment to deal with potential spills and also keeping the volumes of chemical in use low to help to reduce risk further.			
Signature of responsible person:			Date: 25.5.17
Assessor:	Mandy Hartley	Signature:	
Date Assessed:	25.5.17	Review Date:	25.5.18