

**Name of the program** - STEAM into Nature with Natural Pigments Incursion (STEAM Pigments)

**Site** - Primary school and early learning sites. The program is predominantly held in outdoor learning environments within the grounds of an education site.

**Date of Assessment and review** 25<sup>th</sup> March 2019 and reviewed July 27<sup>th</sup> 2021

**Plan prepared by** Nature Play SA Education Team (Maria Taylor) and CEO (Sarah Sutter)

**Communicated to** All Nature Play SA staff and sites hosting this program

**Plan prepared** using the Department for Education SA Risk Matrix

*Nature Play SA will monitor the effectiveness of controls and change if necessary. This assessment will be reviewed every 6 months or if an incident or significant change occurs.*

## **Description of the program where risks have been identified**

- Making and using natural pigments sourced entirely from nature, learning how pigments have been generated throughout history.

## **Benefits of activity for learning outcomes of children**

- History and STEAM learning - exploring pigment production throughout history.
- Experimenting with different painting techniques, designing, and creating works of art.
- Biological sciences, living and non-living things, engaging and exploring the senses.
- Development of creativity, imagination, problem-solving, fine motor skills, multi-sensory experiences.
- Sustainability and conservation learning through safe foraging practices.

## **Non-negotiable elements of this activity**

- Benefits outweigh risk 'when children encounter certain types of risks, it helps them to learn to assess and manage risks' (Gill, 2007)
- Educating children about risk, challenges, limitations, and safety in outdoor learning environments is part of every leader's introduction and brief
- Site-based staff supervise children, and children to staff ratio reflect department/site/sector policy.
- Nature Play staff member is to manage all resources and facilitate the session.
- The site is to give final approval for all resources used for the program, and adults and children are made aware of any risks and expectations
- Children engage with natural elements and environments in a safe way, exploring new ideas and developing their natural creativity
- The identified teacher in charge is deferred to regarding the pastoral care of students (administering first aid and behaviour management.)

## **COVID-19 - Response - Additional Information**

Nature Play SA is committed to supporting a safe environment for all by following all SA Government and health advice with reasonable adjustments to our incursion and excursion program implemented when necessary. The use of outdoor environments is key to our programs, and we support federal government advice for schools 'to teach outdoors when possible' through the delivery of our incursions.

### Exposure to COVID-19 and associated response to COVID-19 and SA Health and Government Advice

Current SA Government and health guidelines inform all aspects of program delivery, including steps taken to cancel/reschedule when necessary and adjustments as dictated by SA Health and Government

- Nature Play SA is a COVID-safe workplace with required policies, protocols, and practises in place for all employees.
- Programs are delivered in expansive outdoor areas on school grounds.
- NPSA facilitator(s) will ensure they adhere to current social distancing best practice protocols.
- Students have access to individual workspaces within this open area when required.
- Resources can be individually distributed amongst students when necessary (no communal resources if required or requested.)
- Hand sanitiser and wipes are available.

**Hazard Identified - Water use for painting - child falling in**

Preliminary Risk Assessment - Unlikely x Major = Moderate / Level of risk with control in place - Rare x Moderate = Low

Reduction and control measures	Who	When
Containers are small jugs akin to paint pots. Washing up tubs are kept off the ground to ensure they cannot be tripped over and fallen into. Supervision by all staff is maintained throughout the incursion	NPSA Staff Class teacher	On the day

**Hazard Identified - Paintbrushes - poking injury**

Preliminary Risk Assessment - Unlikely x Minor = Low / Level of risk with control in place - Rare x Minor = Low

Reduction and control measures	Who	When
Use is in keeping with how paint brushes are used in classroom and art room environments.	NPSA Staff and Class teacher	Throughout incursion

## Hazard Identified - ingesting natural pigments and powders

Preliminary Risk Assessment - Unlikely x Moderate = Moderate / Level of risk with control in place - Rare x Minor = Low

Reduction and control measures	Who	When
All items are non-toxic and cause no harm if ingested. All spices and powders are food grade and are 'every day' pantry items. At the start of the session, the teacher is invited to survey all resources for final approval. Give safety talk to everyone on the day regarding safe use (use on spoons, do not put in mouth etc)	NPSA Staff Class teacher	Before incursion Throughout incursion

## Hazard Identified - ingesting Kaolin Clay

Preliminary Risk Assessment - Unlikely x Moderate = Moderate / Level of risk with control in place - Low x Minor = Low

Reduction and control measures	Who	When
<p>Kaolin clay is stored in jars. Dispensed with spoons and mixed with paintbrushes and stirring spoons. This substance should cause no harm if ingested in small quantities - although the teacher needs to advise if any students may be allergic to kaolin clay. Not to be used in high winds due to the unlikely event of particles moving through the air.</p> <p>Access the MSDS at <a href="http://www.praannaturals.com/downloads/msds/SDS_White_Kaolin_Clay_CLAYCHINAGB35.pdf">http://www.praannaturals.com/downloads/msds/SDS_White_Kaolin_Clay_CLAYCHINAGB35.pdf</a></p>	<p>NPSA Class teacher All staff</p>	Throughout incursion

**Hazard Identified -Operating in adverse weather conditions**

Preliminary Risk Assessment - Unlikely x Moderate = Moderate / Level of risk with control in place - Low x Minor = Low

Reduction and control measures	Who	When
Site-based rules and regulations prevail, with all NPSA programs reflecting the site's procedures and protocols. In severe weather, the NPSA team reserves the right to amend or change the program as they see fit. Amendments communicated by 4 pm the day prior where possible	NPSA Site	Throughout incursion

Overall preliminary assessment Risk = low/moderate                      Overall assessment with control in place risk = low

Likelihood		Consequence	
<b>Almost Certain</b>	Possibility of occurrence more than 75% - expected to occur	<b>Critical</b>	<ul style="list-style-type: none"> <li>Critical incident (eg death or permanent disability of adult or child; high level of distress to other parties)</li> <li>Sustained negative publicity or damage to reputation from a national perspective or from the community welfare perspective</li> </ul>
<b>Likely</b>	Possibility of occurrence between 50% and 75% - probably will occur	<b>Major</b>	<ul style="list-style-type: none"> <li>Multiple injuries requiring specialist medical treatment or hospitalisation; and/or major occupational health safety and welfare liability incident/issue</li> <li>Major incident which damages public or parent confidence</li> </ul>
<b>Possible</b>	Possibility of occurrence between 25% and 50% - may occur at some time	<b>Moderate</b>	<ul style="list-style-type: none"> <li>Serious injuries and/or illness</li> <li>Complex welfare and/or health care issue</li> <li>Serious disruption or incident, resulting in distress to children and adults</li> </ul>
<b>Unlikely</b>	Possibility of occurrence between 5% and 25% - could occur at some time	<b>Minor</b>	<ul style="list-style-type: none"> <li>Minor first aid or minor occupational health safety and welfare liability incident/issue (eg minor cuts, bruises, bumps)</li> </ul>
<b>Rare</b>	Possibility of occurrence less than 5% - may never occur	<b>Insignificant</b>	<ul style="list-style-type: none"> <li>No treatment required</li> </ul>

		Likelihood				
		Rare	Unlikely	Possible	Likely	Almost Certain
Consequence	Critical	Moderate	High	High	Extreme	Extreme
	Major	Moderate	Moderate	High	High	Extreme
	Moderate	Low	Moderate	Moderate	High	High
	Minor	Low	Low	Moderate	Moderate	Moderate
	Insignificant	Low	Low	Low	Moderate	Moderate