

National Stone Centre

Risk Assessment for : School and T.I.R. Activities Date of assessment : 14.11.2005 Reviewed : 20.01.2009
 Assessment and review carried out by : Jerry Climpson

Supervision of all students on site is the responsibility of the students' staff and carers at all times.

Students and staff will not misuse/interfere with anything provided in the interests of Health and Safety.

All groups will receive an Induction and Health and Safety talk before taking part in any activities.

Some sections of the site are OFF LIMITS to all students and staff; these include all fenced-off areas, quarry faces at ground level and the top of quarry faces. Please keep to designated site trails.

A list of activities with their respective ref numbers can be found after the risk assessment chart.

Ref	Hazard	Affecting	Risk Description	Consequence	Risk Rank	Controls	Residual Risk
1	Uneven, rough, gravel underfoot	Students, carers and NSC staff	Tripping or slipping	Bruise, abrasion or twist	4x2=8	Verbal warning given at induction	3x2=6
2	Loose rock/boulders on ground	Students, carers and NSC staff	Tripping	Severe bruise/abrasion	3x3=9	Verbal warning at induction inc. not walking backwards	2x3=6
3	Mine shafts	Students, carers and NSC staff	Falling into shaft	Major or fatal injury	2x5=10	Known shafts capped, observe Health and Safety code - issued to visiting staff prior to visit	1x5=5
4	Quarry faces	Students, carers and NSC staff	Loose/falling rocks	Major or fatal injury	2x5=10	Verbal warning given at induction, worst affected quarry faces fenced off	1x5=5
5	Water in gem panning pools	Young children	Drowning of very small children	Fatal	2x5=10	Waterdepth150-200mm, Warning sign to carers of small children	1x5=5
6	Water in gem panning pools	Students, carers	Water-born infection	Hospitalisation	3x4=12	Water changed every other day using fresh tap water, hand washing recommended after activity, protective gloves for dermatological sufferers	1x4=4
7	Gem stones	Students	Choking/ swallowing of gems	Minor injury	3x2=6	Verbal warning before activity – keep gems away from mouth	2x2=4
8	Plaster of Paris	Students, carers and NSC staff	Inhalation of Plaster of Paris powder	Breathing problems	3x3=9	Volunteers instructed on careful use of Plaster of Paris	2x3=6

9	Plaster of Paris	Students, carers and NSC staff	Allergic reaction to Plaster of Paris powder	Breathing reaction	2x2=4	Issue face masks to allergy sufferers	2x1=2
10	Rock and Mineral samples	Students, carers and NSC staff	Infection from contaminated samples	Upset stomach	2x2=4	Hand washing recommended after activity, keep hands away from face	1x2=2
11	Soils samples	Students, carers and NSC staff	Infection from contaminated samples	Upset stomach	2x2=4	Hand washing recommended after activity, keep hands away from face	1x2=2
12	Disembarking from vehicle in lay-by on public road	Students, carers and NSC staff	Collision with moving vehicles on public road	Major injury	2x4=8	Verbal instructions before leaving vehicle, NSC staff between students and road	1x4=4
13	Small pieces of crayon	Young students	Choking or swallowing	Minor injury	3x2=6	Staff to remove small pieces of crayon from pencil box	2x2=4
14	Ramp to café area in shop	Students, carers and NSC staff	Tripping	Significant injury	3x3=9	Handrail installed	2x2=4
15	Exposure to weather	Students, carers and NSC staff	Overexposure to hot or cold weather	Minor injury/illness	3x2=6	Safety note in information pack advises on types of appropriate clothing	2x2=4

Please read the important information contained in the 'Information For School Groups' leaflet and the Health and Safety information sheet.

Activities:

Guided Trail	Ref Nos. 1, 2, 3, 4,15	Exhibition	Ref Nos. -
Gempanning	Ref Nos. 5, 6, 7,15	Shop	Ref Nos. 14
Fossil Casting	Ref Nos. 8, 9,15	Fossil Rubbing	Ref Nos. 13
Rocks & Minerals	Ref Nos. 10,15	Quarry Visit	Ref Nos. 1,12,15
Soils	Ref Nos. 11,15		

Risk Ranking:

Likelihood	x	Consequence	=	Risk Factor
Incredible (1)		No injury (1)		
Very unlikely (2)		Minor injury (eg. small bruise/abrasion/cut) (2)		
Unlikely (3)		Significant injury (eg. large bruise/abrasion/cut, broken finger/toe) (3)		
Likely (4)		Major injury (eg. broken limb, loss of eye, hospitalisation) (4)		
Certain (5)		Fatal injury (5)		

Risk Factors	15 to 25	= Unacceptable
	8 to 12	= Reduce as low as possible
	1 to 6	= Broadly acceptable

E.G. Unlikely major injury - 3 x 4 = 12 i.e. Risk factor is 12, therefore reduce risk as low as possible.