

Establishment:	Techniquest Glyndwr Science Discovery Centre (TQG)	Assessment by:	Cerian Farrant
Environment:	Exhibition areas, science theatre, lunchroom, exhibits, toilets, car park and external areas	Assessment date:	June 2016
Workshop/ Show:	N/A	Assessment update due:	June 2018

Hazards – List significant hazards that may result in serious harm or affect people in the party	H = High M = Medium L = Low RISK	Who might be harmed? List groups of people who are especially at risk from the hazards identified.	Is the risk adequately controlled? List existing controls or note where information may be found, e.g. information, instruction training, systems or procedures.	What further actions are required to control the risk? List the risks that are not adequately controlled and propose actions that are needed to reduce or eliminate the risks.	Outcome H/M/L RISK
Fire	M	Staff and visitors	All staff trained on Fire Evacuation procedure. All supervisory staff complete fire marshal training. A siren will sound in the event of a fire. Extinguishers are regularly serviced.	Ensure ALL staff know the locations of fire exits, extinguishers and fire assembly point.	L
Trip Hazards - In and around buildings.	M	Staff and visitors	No running rule in Centre. High visibility marks on steps and ramps.	TQG staff to ensure visitors follow guidance on behaviour.	L
Stairs - Trip hazard.	M	Staff and Visitors	High visibility marks on steps and ramps.	TQG staff to ensure visitors follow guidance on behaviour.	L
Glass Panelled Doors - Collision and breakage.	M	Staff and Visitors	Re-enforced glass used to decrease risk of breakage.	TQG staff to ensure visitors follow guidance on behaviour.	L
Automatic Doors - risk of young children leaving unnoticed.	M	Visitors - young children	Doors can only be opened by pressing button on wall.	Use of doors monitored by TQG staff.	L
Theatre - Tiered stage, trip hazard.	M	Staff and Visitors	High visibility marks on steps and ramps.	TQG staff to ensure visitors follow guidance on behaviour.	L
Lunch Room - spillages, floors may become slippery.	M	Staff and Visitors	Signs requesting visitors to report any spillage to staff.	TQG staff to ensure visitors follow guidance on behaviour.	L

Toilets - Wet floors may become slippery.	M	Staff and Visitors	Signs requesting visitors to report any spillage to TQG staff	Regular monitoring of condition of toilets.	L
Electrical Supply - Risk of Electrical shock.	L	Staff and Visitors	All electrical exhibits are PAT tested annually and subject to frequent visual inspection. Monthly exhibit maintenance visits. Fixed electrical tests carried out every 5 years. (Next due in 2020)	Electrical exhibits are kept clear of water.	L
Car Park. - Risk of serious injury, collision with vehicles.	M	Staff and Visitors	Schools groups are led by staff to and from coaches. Speed ramps around campus. Speed restrictions in place, staff control traffic when taking schools across the road.	Regular monitoring of car park users.	L
Zone 5 - Possible use of chemicals, naked flames.	L	Staff and Visitors	Ensuring presenter is an adequate distance from the audience. Individual risk assessments are available for each show.	TQG staff to ensure visitors follow guidance on behaviour.	L
Shows - Possible use of chemicals, naked flames.	L	Staff and Visitors	Ensuring presenter is an adequate distance from the audience. Individual risk assessments are available for each show.	TQG staff to ensure visitors follow guidance on behaviour.	L
**5 Puzzle – Risk of bruising.	L	Staff and Visitors	The table and loose pieces have rounded edges.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Air Canon – Risk of choking.	L	Staff and Visitors	Disks can be removed from the wall. TQG staff to keep regular checks for any missing parts.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Air Stream – Risk of choking, electrical shock.	L	Staff and Visitors	Loose components sized to pass choke test. Made from robust plastic and foam which does not easily break. Electrical components are cased within cabinet. Monthly maintenance check.	TQG staff to ensure visitors follow guidance on behaviour. Regularly check for damage.	L
**Animate-It - Risk of choking.	L	Staff and Visitors	Loose components sized to pass choke test. Electrical components are cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Arch Bridge - Risk of fall from bridge, splintering, trip hazard.	L	Staff and Visitors	Bridge alongside wall. Exhibit condition is monitored daily. Monthly maintenance check.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Balancing Balls - Risk of bruising.	L	Staff and Visitors	Weight of component is minimised.	TQG staff to ensure visitors follow guidance on behaviour.	L

**Balancing Broomsticks - Risk of bruising, falling.	L	Staff and Visitors	Base weighted for extra stability. Broomsticks have rounded ends.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Beat Your Heart - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Fluid contained within exhibit.	Regularly check exterior electrical cables.	L
**Bernouli Blower -Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Blacker than Black - Risk of Crush, pinch.	L	Staff and Visitors	Lightweight lid.	N/A	L
**Blown Up –Risk of electrical shock, choking.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Parts sized to pass choke test. Condition of parts checked daily.	Regularly check exterior electrical cables. TQG staff to ensure visitors follow guidance on behaviour.	L
**Body Builder - Risk of bruising, tripping.	L	Staff and Visitors	Parts are sized to pass choke test. Visitors encouraged to keep parts off the floor.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Bubble Projector – Risk of electrical shock, trip hazard.	L	Staff and Visitors	Cable to the mains covered. Fan to keep the bulb cool. Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Bucket Radio - Risk of electrical shock, bruising.	L	Staff and Visitors	Electrical equipment cased within cabinet. Loose parts are lightweight. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Chromosomes - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Colour Takeaway - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Contours – Risk of choking, falling, trip hazard.	L	Staff and Visitors	Loose components sized to pass choke test. Loose parts too light to cause injury. Regular checks of the floor for loose components to avoid trip hazard.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Corner Mirror -Risk of bruising, choking.	L	Staff and Visitors	Parts are sized to pass choke test. Toughened glass mirror.	TQG staff to ensure visitors follow guidance on behaviour.	L

**Crazy Crane - Risk of bruising.	L	Staff and Visitors	Parts are sized to pass choke test.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Cogs in your Car (Differential) – Risk of trapped hand.	L	Staff and Visitors	Small moving parts are enclosed. Visitors discouraged from putting hands through the gaps in the turning handle.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Design-a-Tree - Risk of electrical shock.	L	Staff and Visitors	Parts are sized to pass choke test. Toughened glass mirror. Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Driven to Distraction – Trip hazard; risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Earthquake table – Risk of choking, bruising, risk of electrical shock.	L	Staff and Visitors	Balls are sized to pass choke test. Lightweight balls. Electrical equipment cased within cabinet. Monthly maintenance check.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Flying Mirror – Risk of personal injury – impact with mirror, falling.	L	Staff and Visitors	Adequate lighting and rounded corners. Use of Perspex mirrors.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Garden Gate - Risk of bruising, pinching.	L	Staff and Visitors	Design allows pinch areas to be minimised.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Geochron - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables	L
**Get Unknotted - Risk of strangulation.	L	Staff and Visitors	Visitors are discouraged from climbing on the exhibit.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Gravity Well - Risk of choking, bruising.	L	Staff and Visitors	Balls are sized to pass choke test. Lightweight balls.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Gyro Chair – Risk of falling, dizziness.		Staff and Visitors	Have a firm hold of the wheel. If dizzy, stay seated once the chair has stopped spinning.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Hot and Cold Hands – Risk of burning, electrical shock.	L	Staff and Visitors	Ambient to external temperature. Keep in a shaded area during summer months. Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check the exhibit and relocate or remove from floor if necessary.	L

**How Many Like Me? - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables	L
**Human Battery - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**It All Adds Up - Risk of choking, bruising.	L	Staff and Visitors	Balls are sized to pass choke test. Balls are lightweight.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Keyhole Cross - Risk of bruising, splintering.	L	Staff and Visitors	Lightweight parts. Condition of wood checked daily.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Look into Infinity - Risk of electrical shock, bruising, crush.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Heavy base ensures stability.	Regularly check exterior electrical cables.	L
**Loop the Loop - Risk of strangulation.	L	Staff and Visitors	Visitors are discouraged from climbing on the exhibit.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Light Works – Risk of electrical shock, damage to eyes.	L	Staff and Visitors	Electrical equipment and bulbs cased within cabinet. Monthly maintenance check. Acceptable level of brightness.	Regularly check electrical cables.	L
**Make 24 – Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Mirror Maze - Risk of personal injury - impact with mirror.	H	Staff and Visitors especially young children	TQG staff to oversee use of maze. Bi-lingual signage at entry and exit points. Adequate lighting. Rounded corners on pillars. Use of Perspex mirrors at key points.	TQG staff to ensure visitors follow guidance on behaviour. Close mirrors at times of high risk. ie excited children.	M
**Motion and Camouflage - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Off Your Blocks – Risk of electrical shock.	L	Staff and Visitors	Electrical equipment and bulbs cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Optical Illusions x3 - Risk of personal injury, falling object.	L	Staff and Visitors	Secured to the wall, no loose pieces or sharp edges.	Regular checks to ensure panels are secure.	L

**Orbits - Risk of choking, bruising.	L	Staff and Visitors	Balls are sized to pass choke test. Balls are lightweight.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Packing Parcels - Risk of pinching, bruising, splintering.	L	Staff and Visitors	Lightweight components. Exhibit inspected daily.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Parabolic Mirror – Risk of personal injury, impact with mirror, trip hazard.	M	Staff and Visitors	Base of exhibit a distinct colour and sloping edge. Adequate lighting. Use of Perspex mirror.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Pharaohs' Pyramid - Risk of choking, bruising.	L	Staff and Visitors	Parts sized to pass choke test. Condition of parts checked daily. Monthly maintenance check.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Pig Pen Puzzle - Risk of pinching, bruising, splintering.	L	Staff and Visitors	Component weight is minimised. Rounded edges.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Pin Screen - Risk of scratches.	L	Staff and Visitors	Regular maintenance to check condition of base and pins.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Plasma Sphere - Risk of electrical shock, static shock.	M	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Visitors discouraged from deliberate sparking.	Regularly check exterior electrical cables. TQG staff to ensure visitors follow guidance on behaviour.	L
**Plasma Panel – Risk from UV rays, trip hazard.	L	Staff and Visitors	The emitted UV rays are of a safe level. The base of the exhibit has a sloping edge. Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Pouring Pythagoras – Risk of liquid leaking, slip hazard.	L	Staff and Visitors	The liquid is distilled water and food colouring.	Regularly check for leaks.	L
**Powerhouse - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Powers of Ten - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Pull Yourself Together -Risk of choking, bruising.	L	Staff and Visitors	Parts sized to pass choke test. Condition of parts checked daily.	TQG staff to ensure visitors follow guidance on behaviour.	L

**Pyramid Piles - Risk of bruising, choking.	L	Staff and Visitors	Parts sized to pass choke test.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Pythagoras Puzzle - Risk of choking, bruising.	L	Staff and Visitors	Parts sized to pass choke test. Parts lightweight to prevent injury.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Rainstick – Risk of bruising.	L	Staff and Visitors	Has a resistance on the spin of the Rainstick. Small parts are enclosed.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Reaction Timer - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Resonant Bowl - Risk of infection.	L	Staff and Visitors	Water changed at least once per day.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Rhythm Beats – Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Rock and Roller – Risk of pinching.	L	Staff and Visitors	Cushioned base.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Roll Uphill -Risk of falling, bruising.	L	Staff and Visitors	Cone is lightweight and hollow. Visitors discouraged from climbing.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Rotts Pendulum - Trip hazard.	L	Staff and Visitors	Poles attached to floor, painted red for increased visibility.	TQG staff to ensure visitors follow guidance on behaviour.	L
**See Stress - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Seeing is Deceiving – Risk of personal injury, rope burn.	L	Staff and Visitors	String is securely fixed and checked regularly. Monthly maintenance check. Soft string to reduce risk of rope burn.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Seismograph - Risk of electrical shock, tripping, falling.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L

**Shadow Box - Risk of electrical shock, bruising.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Shrinking Chair - Risk of fall from chair, bruising.	L	Staff and Visitors	Chair is low to the ground and each piece has rounded edges.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Sketching Symmetry - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Slow Bubbles – Risk of personal injury, falling.	L	Staff and Visitors	Visitors are discouraged from climbing on the exhibit. There is a large enough gap between the handle and the base of the exhibit to avoid trapping fingers.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Soft Soma Cube - Trip hazard.	L	Staff and Visitors	Puzzle blocks made of foam, lightweight and soft.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Stereo Image - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**Strings – Risk of splintering.	L	Staff and Visitors	The base of this exhibit is wooden and checked regularly for splinters. Monthly maintenance check. Primarily a visual exhibit and produces minimal noise.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Talk Tracer - Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check.	Regularly check exterior electrical cables.	L
**To Infinity and Beyond -Risk of personal injury - impact with mirror.	L	Staff and Visitors	Static mirrors.	TQG staff to ensure visitors follow guidance on behaviour.	L
**The Orb - Risk of pinching, falling.	L	Staff and Visitors	Design puts pinch parts out of reach. TQG staff discourage running around the exhibit.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Thermochromic - Risk of cuts.	L	Staff and Visitors	Toughened laminated glass or polycarbonate screens.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Theremin – Risk of electrical shock, damage to hearing.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Acceptable level of sound.	Regularly check exterior electrical cables.	L

**Through the Looking Glass – Risk of personal injury, damage to visibility.	L	Staff and Visitors	Use of Perspex glass. Rounded edges. Acceptable level of brightness.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Towers of Brahma - Risk of choking, bruising.	L	Staff and Visitors	Loose components sized to pass choke test.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Translating T's – Risk of choking, pinching.	L	Staff and visitors	Parts are sized to pass choke test. Condition of parts checked daily.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Treasure Chest - Risk of pinching, splintering.	L	Staff and Visitors	Lid is air damped to avoid pinching fingers. Exhibit condition checked daily.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Tri-Circles - Risk of choking, bruising.	L	Staff and Visitors	Loose components sized to pass choke test. Loose parts too light to cause injury.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Tune Blocks – Risk of electrical shock, choking.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Parts sized to pass choke test. Condition of parts checked daily.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Turntable – Risk of trapped fingers/ clothing.	L	Staff and Visitors	The gap between the turntable and the base is of a safe distance to avoid injury. Cable to the mains covered. Electrical equipment cased within cabinet. Monthly maintenance check.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Vocal Vowels – Risk of pinching.	L	Staff and Visitors	Rounded edges to reduce risk of pinch.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Vocal Wonders – Risk of electrical shock, damage to hearing.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Acceptable level of sound.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Whisper Dishes – risk of personal injury.	L	Staff and Visitors	Do not climb on, or swing from the exhibit.	TQG staff to ensure visitors follow guidance on behaviour.	L
**Wiggle Wire – Risk of electrical shock.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Powered by a rechargeable battery. Charged overnight via mains.	TQG staff to ensure visitors follow guidance on behaviour.	L
**WYSIWYG – Risk of electrical shock, choking.	L	Staff and Visitors	Electrical equipment cased within cabinet. Monthly maintenance check. Small parts enclosed.	TQG staff to ensure visitors follow guidance on behaviour.	L