



# ABANDON NORMAL DEVICES

## ABANDON NORMAL DEVICES RISK ASSESSMENT: PROJECT DAEDALUS

ASSESSMENT OF RISK TO THE PARTICIPANTS AND STAFF DURING PROJECT DAEDALUS LAB AND SANDPIT EVENTS.

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PREPARED BY	[REDACTED]
DATE	[REDACTED]
UPDATED	[REDACTED]
DATE	[REDACTED]



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## ACTIVITY OVERVIEW

**Activity Name:** Project Daedalus – Lab, Sandpit

### Description of Activity:

- **Lab #1 London & Lab #2 Manchester:** Invited members of arts and cultural organisation will take part in a lead workshop. Here they will view a showreel of drone art, take part in discussion activities, fly nano (palm of the hand) size drones, try Virtual Reality experiences via google cardboard and Oculus Rift.
- **Lab #3 Outdoor Testing:** During this workshop outdoor testing of the drones will take place in the 3 days preceding. The testing will involve one member of staff flying a drone outside to test GPS based tracking and control mechanisms.
- **Sandpit x 3:** School Group, Disabled adults, BBC Employees will take part in a lead workshop. Here they will view a show reel of drone art, take part in discussion activities, fly nano (palm of the hand) size drones outdoors if the weather is fair, indoors if not, try Virtual Reality experiences via google cardboard and Oculus Rift. Each of these sessions will be tailored to suit the audience.
- **Max Capacity:** London Lab: 15 participants and 8 staff members, Manchester Lab: 15 participants and 7 staff members, Manchester Testing 1 member of staff, Sandpit participants 10 in school, 10 in disabled learners, 20 in BBC – 5 staff, bar school which is 6.

X – indicating whether they are present at the event.

Individual	Organisation	Insurance	London Lab	Manchester Lab	Manchester Lab Testing	Sandpit: School	Sandpit: Disabled Adults	Sandpit: BBC
[REDACTED]	[REDACTED]	[REDACTED] public liability	X	X		X	X	X
[REDACTED]	[REDACTED]	[REDACTED] public liability also [REDACTED] insurance.	X	X		X	X	X
[REDACTED]	[REDACTED]	[REDACTED] Public liability	X	X		X	X	X
[REDACTED]	[REDACTED]	[REDACTED] Public liability	X	X		X	X	X
[REDACTED]	[REDACTED]	[REDACTED] Public liability also [REDACTED] insurance.		X	X			
[REDACTED]	[REDACTED]	[REDACTED] Public liability also [REDACTED] insurance.	X					
[REDACTED]	[REDACTED]	[REDACTED] Employers Liability	X	X				
[REDACTED]	[REDACTED]	[REDACTED] Employers Liability	X	X		X		



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Emergency Contacts: [REDACTED]

## Schedule and dates by Event / Action

Date	Event / Action
[REDACTED]	Lab – London
[REDACTED]	Lab – Manchester
[REDACTED]	Lab – Manchester Testing
[REDACTED]	Sandpit – Disabled Adults
[REDACTED]	Sandpit – School Students
[REDACTED]	Sandpit – BBC Employees
[REDACTED]	Showcase - London
[REDACTED]	Showcase - Manchester



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## Event Risk Assessment Guidance Notes

This Risk Assessment relates to the persons attending the event as guests and staff from AND, MLF and the University of Salford working on Project Daedalus.

This Risk Assessment is based upon information and experience gained from other previous similar events. This will form the statement of intent for the event.

All staff and guests shall observe the Health and Safety Regulation currently in place at the site as made known to them by the Event Organisers.

## Groups of people which may be affected

<b>A</b>	Guests
<b>B</b>	Staff
<b>C</b>	General Public



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## General Risk Assessment Priority Ranking

Likelihood:

X	5	4	3	2	1	0
5	25	20	15	10	5	0
4	20	16	12	8	4	0
3	15	12	9	6	3	0
2	10	8	6	4	2	0
1	5	4	3	2	1	0
0	0	0	0	0	0	0

### Likelihood

Almost certain – 5

Very likely – 4

Likely – 3

Unlikely – 2

Very unlikely – 1

Zero to very low – 0

**Unacceptable**

Acceptable

### Severity

Fatality/disabling - 5

Major injury /illness - 4

3 day injury/illness - 3

Minor injury/illness – 2

First aid injury/illness - 1

No injury/illness - 0



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## RISK ASSESMENT: Lab #1 London

### SCHEDULE

Start Date: [REDACTED]  
 End Date: [REDACTED]  
 Daily Start Time: 13:00  
 Daily End Time: 17:00

### GENERAL

Staffing: 8 x AND, MLF & UoS staff  
 Attendees: Max 15 x invited guests  
 Welfare Provisions: Toilets & first aid

### LOCATION

[REDACTED] N7 9EF

## Workshop - Effecting groups A and B

NO	TASK	HAZARD (HARM)	CAUSE	LIKE - LIHOOD	SEVERITY	ACCEPT Y/N	CONTROLS	LIKE - LIHOOD	SEVERITY	ACCEPT Y/N
1	Setting up general technical equipment	Trip hazard	Electrical wires running around and electrical equipment present.	3	2	N	Crew will all be aware of the wires and all wires that run in publicly accessible areas will be covered by wire guarding and check regularly by crew.	1	2	Y
2	Risk of drone crashing into the floor, walls or property in the venue.	Scratched property/building.	Drone flying into walls or floor through pilot error.	4	0	N	The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.  The guest will fly a nano drone under the direct supervision of an experienced staff member.	1	0	Y



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						<p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>0</p> <p>0</p> <p>0</p> <p>0</p>	
<u>3</u>	Risk of drone crashing into a person.	Bruising or scratched skin.	Drone flying into a person through pilot error.	<u>2</u>	<u>1</u>	<u>N</u> <p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room.</p> <p>The nano drones will only be handled by staff members, whilst the controller is not in anyone else's hand to avoid sudden flight or</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<u>Y</u>



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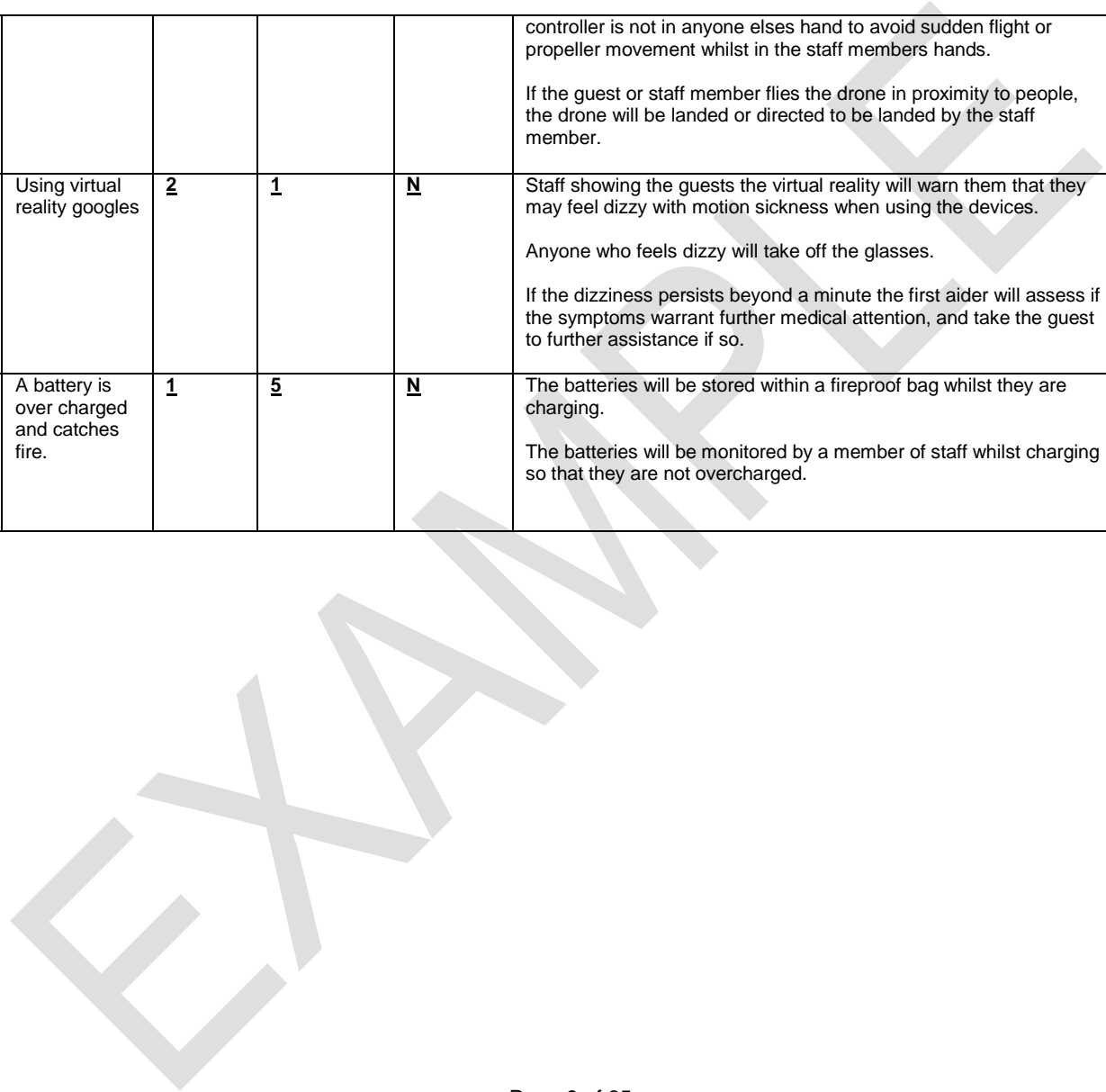
							propeller movement whilst in the staff members hands.  If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.			
<u>4</u>	Risk of drone crashing into a person not taking part in the workshop.	Bruising or scratched skin.	Drone flying into a person through pilot error.	<u>1</u>	<u>1</u>	<u>N</u>	<p>Signs will be placed on the doors to the room indicating that drones will be flown for an hour and the specific times. This way staff assisting in catering in non flight parts of the session will not accidentally walk into the room.</p> <p>Catering staff will be briefed on when it is safe to enter the room prior to the workshop.</p> <p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room. Being away from the doors should prevent the likelihood of a drone crashing into a person suddenly entering the room.</p> <p>The nano drones will only be handled by staff members, whilst the</p>	<u>1</u>	<u>1</u>	<u>Y</u>





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							<p>controller is not in anyone elses hand to avoid sudden flight or propeller movement whilst in the staff members hands.</p> <p>If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.</p>			
<u>5</u>	Risk of feeling dizzy whilst using virtual reality.	Feeling dizzy	Using virtual reality googles	<u>2</u>	<u>1</u>	<u>N</u>	<p>Staff showing the guests the virtual reality will warn them that they may feel dizzy with motion sickness when using the devices.</p> <p>Anyone who feels dizzy will take off the glasses.</p> <p>If the dizziness persists beyond a minute the first aider will assess if the symptoms warrant further medical attention, and take the guest to further assistance if so.</p>	<u>1</u>	<u>2</u>	<u>Y</u>
<u>6</u>	Risk of battery catching fire when charging.	Fire starting	A battery is over charged and catches fire.	<u>1</u>	<u>5</u>	<u>N</u>	<p>The batteries will be stored within a fireproof bag whilst they are charging.</p> <p>The batteries will be monitored by a member of staff whilst charging so that they are not overcharged.</p>	<u>1</u>	<u>5</u>	<u>Y</u>





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## RISK ASSESMENT: Lab #2 Manchester

### SCHEDULE

Start Date: [REDACTED]  
 End Date: [REDACTED]  
 Daily Start Time: 13:00  
 Daily End Time: 17:00

### GENERAL

Staffing 8 x AND, MLF & UoS staff  
 Attendees Max 15 x invited guests  
 Welfare Provisions Toilets & first aid

### LOCATION

[REDACTED]

### Workshop - Effecting groups A & B

NO	TASK	HAZARD (HARM)	CAUSE	LIKE-LIHOOD	SEVERITY	ACCEPT Y/N	CONTROLS	LIKE - LIHOOD	SEVERITY	ACCEPT Y/N
1	Setting up general technical equipment	Trip hazard	Electrical wires running around and electrical equipment present.	3	2	N	Crew will all be aware of the wires and all wires that run in publicly accessible areas will be covered by wire guarding and check regularly by crew.	1	2	Y
2	Risk of drone crashing into the floor, walls or property in the venue indoors.	Scratched property / building.	Drone flying into walls or floor through pilot error.	4	0	N	<p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff</p>	1	0	Y



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							<p>before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p>	1	0	
<u>3</u>	Risk of drone crashing into a person indoors.	Bruising or scratched skin.	Drone flying into a person through pilot error.	<u>2</u>	<u>1</u>	<u>N</u>	<p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room.</p> <p>The nano drones will only be handled by staff members, whilst the controller is not in anyone else's hand to avoid sudden flight or propeller movement whilst in the staff member's hands.</p> <p>If the guest or staff member flies the drone in proximity to people, the</p>	1	1	<u>Y</u>



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							drone will be landed or directed to be landed by the staff member.			
<b>4</b>	Risk of drone crashing into a person not taking part in the workshop indoors.	Bruising or scratched skin.	Drone flying into a person through pilot error.	<b>1</b>	<b>1</b>	<b>N</b>	<p>Signs will be placed on the doors to the room indicating that drones will be flown for an hour and the specific times. This way staff assisting in catering in non flight parts of the session will not accidentally walk into the room.</p> <p>Catering staff will be briefed on when it is safe to enter the room prior to the workshop.</p> <p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room. Being away from the doors should prevent the likelihood of a drone crashing into a person suddenly entering the room.</p> <p>The nano drones will only be handled by staff members, whilst the controller is not in anyone elses hand to avoid sudden flight or propeller movement whilst in the staff members hands.</p> <p>If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.</p>	<b>1</b>	<b>1</b>	<b>Y</b>



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<u>5</u>	Risk of feeling dizzy whilst using virtual reality.	Feeling dizzy	Using virtual reality goggles	<u>2</u>	<u>1</u>	<u>N</u>	Staff showing the guests the virtual reality will warn them that they may feel dizzy with motion sickness when using the devices.  Anyone who feels dizzy will take off the glasses.  If the dizziness persists beyond a minute the first aider will assess if the symptoms warrant further medical attention, and take the guest to further assistance if so.	<u>1</u>  <u>1</u>  <u>1</u>	<u>2</u>  <u>2</u>  <u>2</u>	<u>Y</u>
<u>6</u>	Risk of battery catching fire when charging.	Fire starting	A battery is over charged and catches fire.	<u>1</u>	<u>5</u>	<u>N</u>	The batteries will be stored within a fireproof bag whilst they are charging.  The batteries will be monitored by a member of staff whilst charging so that they are not overcharged.	<u>1</u>	<u>5</u>	<u>Y</u>



# ABANDON NORMAL DEVICES

## RISK ASSESMENT: Lab #3 Manchester Outdoor Testing

### SCHEDULE

Start Date: [REDACTED]  
 End Date: [REDACTED]  
 Daily Start Time: 09:00  
 Daily End Time: 17:00

### GENERAL

Staffing: [REDACTED], possibly [REDACTED] or [REDACTED] to assist in setting up.

### LOCATION

[REDACTED]

### Workshop - Effecting groups A, B & C

NO	TASK	HAZARD (HARM)	CAUSE	LIKE - LIHOOD	SEVERITY	ACCEPT Y/N	CONTROLS	LIKE - LIHOOD	SEVERITY	ACCEPT Y/N
1	Setting up general technical equipment	Trip hazard	Electrical wires running around and electrical equipment present.	3	2	N	Equipment will be in the testing area which is fenced off from the general public.	1	2	Y
2	Crash into building.	Neighbouring Buildings scuffed.	Mechanical/electronic failure, a loss of contact between the pilot's ground control transmitter (computer) and receiver on the aircraft. It could also crash due to unsuitable weather	1	1	N	<p>The pilot is a suitably experienced operator.</p> <p>There is appropriate aviation insurance in place of up to 25 million.</p> <p>The maximum altitude is restricted to 10 meters, but will operate at 8m as an average height, so there is no risk of interference with aircraft. The CAA only requires notification of flight if the drone is flown at 400ft vertically which we are well below.</p> <p>The maximum distance from the operator is 20 meters, minimising the risk to nearby buildings as the drone will be landed if it approaches the edge of the test flight area. The CAA only requires notification of flight if the drone is flown at 500m horizontally which</p>	1 1 1 1	0 0 1 1	Y



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			conditions or pilot error.				we are well below. The UASs will be flown in line of sight of the operator. The UASs will not be flown at night. Permission has been obtained from the owner of the take-off point. The pilot will be in a position where they cannot be pushed or jostled. As a general rule the UAS's pilot will wholly concentrate on flying and an assistant will monitor any other concurrent work. If the computers link to the quadcopter is lost and the drone begins to 'fly away' the hand controller always has the ability to take control and land the drone. If adverse conditions occur, the drone will not be flown. Damage to the aircraft and its batteries is very low on grass.	<b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>3</b> <b>1</b>	<b>0</b> <b>0</b> <b>0</b> <b>1</b> <b>1</b> <b>0</b> <b>1</b>	
<b>3</b>	Crash into tramlines or vehicles	Vehicles swerves to avoid drone and crashes.  Drone hits vehicle and scratches surface.  Drone hits tramline.	Mechanical/electronic failure, a loss of contact between the pilot's ground control transmitter (computer) and receiver on the aircraft. It could also crash due to unsuitable weather conditions or pilot error.	<b>1</b> <b>1</b> <b>1</b>	<b>5</b> <b>1</b> <b>3</b>	<b>N</b>	The pilot is a suitably experienced operator.  If the computers link to the quadcopter is lost and the drone begins to 'fly away' the hand controller always has the ability to take control and land the drone.  There is appropriate aviation insurance in place of up to 25 million.  The maximum altitude is restricted to 10 meters, but will operate at 8m as an average height, so there is no risk of interference with aircraft. The CAA only requires notification of flight if the drone is flown at 400ft vertically which we are well below.  The maximum distance from the operator is 20 meters, minimising the risk to nearby tramlines and vehicles as the drone will be landed if it approaches the edge of the test flight area. The CAA only requires notification of flight if the drone is flown at 500m horizontally which we are well below.  The UASs will be flown in line of sight of the operator.  The UASs will not be flown at night.  Permission has been obtained from the owner of the take-off point (you)	<b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	<b>0</b> <b>0</b> <b>0</b> <b>1</b> <b>1</b> <b>0</b> <b>0</b> <b>0</b> <b>0</b>	<b>Y</b>



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							The pilot will be in a position where they cannot be pushed or jostled.	1	1	
							As a general rule the UAS's pilot will wholly concentrate on flying and an assistant will monitor any other concurrent work.	1	0	
							If adverse conditions occur, the drone will not be flown.			
<b>4</b>	Crash into people (staff, students and general public).	Bruised or cut skin.	Mechanical/electronic failure, a loss of contact between the pilot's ground control transmitter (computer) and receiver on the aircraft. It could also crash due to unsuitable weather conditions or pilot error.	<b>1</b>	<b>3</b>	<b>N</b>	The pilot is a suitably experienced operator.	1	0	<u>Y</u>
							If the computers link to the quadcopter is lost and the drone begins to 'fly away' the hand controller always has the ability to take control and land the drone.	1	0	
							There is appropriate aviation insurance in place of up to 25 million.	1	0	
							The maximum distance from the operator is 20 meters, minimising the risk to nearby buildings, people and the tramlines as the drone will be landed if it approaches the edge of the test flight area. The CAA only requires notification of flight if the drone is flown at 500m horizontally which we are well below.	1	1	
							The UASs will be flown in line of sight of the operator.	1	1	
							The UASs will not be flown at night.	1	0	
							Permission has been obtained from the owner of the take-off point (you)	1	0	
							The pilot will be in a position where they cannot be pushed or jostled.	1	1	
							As a general rule the UAS's pilot will wholly concentrate on flying and an assistant will monitor any other concurrent work.	1	0	
							If adverse conditions occur, the drone will not be flown.	1	1	
							The activity will be clearly signposted to the public, staff and students with warnings to not enter the test flight area. This will include cordoning off the area by adding hazard tape to the low fencing already in place and multiple signs indicating to not enter the area on all sides of the test zone.	1	1	
							Flight will be very localised, giving plenty of scope to land the drone if someone enters the test flight area.			





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<u>5</u>	Unfamiliar Environments and Locations for visiting staff, risk of theft of property.	Risk of theft	Not knowing safe areas for storage of goods.	<u>5</u>	<u>1</u>	<u>N</u>	Tour and induction to site to be made by staff already knowledgeable of the site  Staff will not leave any property unattended.	<u>0</u>  <u>0</u>	<u>0</u>  <u>0</u>	<u>Y</u>
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EXAMPLE



# ABANDON NORMAL DEVICES

## RISK ASSESMENT: Sandpit #1 Disabled Adults

### SCHEDULE

Start Date: [REDACTED]  
 End Date: [REDACTED]  
 Daily Start Time: 10:00  
 Daily End Time: 12:00

### GENERAL

Staffing 4 x MLF and UoS staff and invited guests /  
 [REDACTED] has a current DBS (previously CRB) check, there will always be staff present from [REDACTED] to ensure the safeguarding of the learners is protected.

PARTICIPANTS 10 x Disabled Adults  
 Welfare Provisions Toilets & first aid

### LOCATION

[REDACTED]

### Workshop- Effecting groups A, B & C

NO	TASK	HAZARD (HARM)	CAUSE	LIKELIH OOD	SEVERITY	ACCEPT Y/N	CONTROLS	LIKELIH OOD	SEVERITY	ACCEPT Y/N
1	Setting up general technical equipment	Trip hazard	Electrical wires running around and electrical equipment present.	<u>3</u>	<u>2</u>	<u>N</u>	Crew will all be aware of the wires and all wires will be arranged out of walkways and checked regularly by crew.	<u>1</u>	<u>2</u>	<u>Y</u>



# ABANDON NORMAL DEVICES

2	Risk of drone crashing into the floor, walls or property in the venue indoors.	Scratched property/building.	Drone flying into walls or floor through pilot error.	4	0	N	<p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The disabled adults taking part will have been visited by workshop staff before, and their individual capabilities discussed with Venture Arts Staff ahead of the session to ensure only those deemed physically and mentally able will directly fly a drone. All learners in this group will be holding the controller at the same time as the workshop leader and directing the controller with some influence rather than complete control.</p>	1	0	Y
3	Risk of drone crashing into a person indoors.	Bruising or scratched skin.	Drone flying into a person through pilot error.	2	1	N	<p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p>	1	1	Y



# ABANDON NORMAL DEVICES

						<p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room.</p> <p>The nano drones will only be handled by staff members, whilst the controller is not in anyone else's hand to avoid sudden flight or propeller movement whilst in the staff members hands.</p> <p>If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.</p> <p>The disabled adults taking part will have been visited by workshop staff before, and their individual capabilities discussed with Venture Arts Staff ahead of the session to ensure only those deemed physically and mentally able will directly fly a drone. All learners in this group will be holding the controller at the same time as the workshop leader and directing the controller with some influence rather than complete control.</p>	1	1		
<u>4</u>	Risk of drone crashing into a person not taking part in the workshop indoors.	Bruising or scratched skin.	Drone flying into a person through pilot error.	<u>1</u>	<u>1</u>	<u>N</u>	<p>Signs will be placed on the doors to the room indicating that drones will be flown for an hour and the specific times. This way staff assisting in catering in non flight parts of the session will not accidentally walk into the room.</p> <p>Catering staff will be briefed on when it is safe to enter the room prior to the workshop.</p> <p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of</p>	1	1	<u>Y</u>



# ABANDON NORMAL DEVICES

						harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.			
						The guest will fly a nano drone under the direct supervision of an experienced staff member.	1	1	
						The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.	1	1	
						The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.	1	1	
						The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.	1	1	
						The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.	1	1	
						The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room. Being away from the doors should prevent the likelihood of a drone crashing into a person suddenly entering the room.	1	1	
						The nano drones will only be handled by staff members, whilst the controller is not in anyone else's hand to avoid sudden flight or propeller movement whilst in the staff member's hands.	1	1	
						If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.	1	1	
						The disabled adults taking part will have been visited by workshop staff before, and their individual capabilities discussed with Venture Arts Staff ahead of the session to ensure only those deemed physically and mentally able will directly fly a drone. All learners in this group will be holding the controller at the same time as the workshop leader and directing the controller with some influence rather than complete control.	1	1	



# ABANDON NORMAL DEVICES

<u>5</u>	Risk of feeling dizzy whilst using virtual reality.	Feeling dizzy	Using virtual reality goggles	<u>2</u>	<u>1</u>	<u>N</u>	<p>Staff showing the guests the virtual reality will warn them that they may feel dizzy with motion sickness when using the devices.</p> <p>Anyone who feels dizzy will take off the glasses.</p> <p>If the dizziness persists beyond a minute the first aider will assess if the symptoms warrant further medical attention, and take the guest to further assistance if so.</p>	<u>1</u>	<u>2</u>	<u>Y</u>
<u>6</u>	Risk of battery catching fire when charging.	Fire starting	A battery is over charged and catches fire.	<u>1</u>	<u>5</u>	<u>N</u>	<p>The batteries will be stored within a fireproof bag whilst they are charging.</p> <p>The batteries will be monitored by a member of staff whilst charging so that they are not overcharged.</p>	<u>1</u>	<u>5</u>	<u>Y</u>
<u>7</u>	Risk of drone crashing into the floor, walls or property in the venue outdoors.	Scratched property/building, broken plant.	Drone flying into walls, cars, plants or floor through pilot error.	<u>4</u>	<u>0</u>	<u>N</u>	<p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the staff member from Venture Arts flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The disabled adults taking part will have been visited by workshop staff before, and their individual capabilities discussed with Venture Arts Staff ahead of the session to</p>	<u>1</u>	<u>0</u>	<u>Y</u>



# ABANDON NORMAL DEVICES

							ensure only those deemed physically and mentally able will directly fly a drone. All learners in this group will be holding the controller at the same time as the workshop leader and directing the controller with some influence rather than complete control.			
<u>8</u>	Risk of drone crashing into a person outdoors.	Bruising or scratched skin.	Drone flying into a person through pilot error.	<u>2</u>	<u>1</u>	<u>N</u>	<p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls of the garden centre or centre property.</p> <p>The staff member will be physically close to the to the staff member from Venture Arts flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the space away from the staff, guests and doors to the room.</p> <p>The nano drones will only be handled by staff members, whilst the controller is not in anyone else's hand to avoid sudden flight or propeller movement whilst in the staff members hands.</p> <p>If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.</p> <p>The disabled adults taking part will have been visited by</p>	<u>1</u>	<u>1</u>	<u>Y</u>



# ABANDON NORMAL DEVICES

							workshop staff before, and their individual capabilities discussed with Venture Arts Staff ahead of the session to ensure only those deemed physically and mentally able will directly fly a drone. All learners in this group will be holding the controller at the same time as the workshop leader and directing the controller with some influence rather than complete control.			
<u>9</u>	Risk of drone crashing into a person not taking part in the workshop outdoors.	Bruising or scratched skin.	Drone flying into a person through pilot error.	<b>1</b>	<b>1</b>	<b>N</b>	<p>Signs will be placed on the doors to the centre indicating that drones will be flown for an hour and the specific times. This way the general public in non flight parts of the session will not accidentally walk into the room.</p> <p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room. Being away from the doors should prevent the likelihood of a drone crashing into a person suddenly entering the room.</p> <p>The nano drones will only be handled by staff members, whilst the controller is not in anyone else's hand to avoid sudden</p>	<b>1</b>	<b>1</b>	<b>Y</b>





## ABANDON NORMAL DEVICES

							flight or propeller movement whilst in the staff members hands.			
							If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.	1	1	
							The disabled adults taking part will have been visited by workshop staff before, and their individual capabilities discussed with Venture Arts Staff ahead of the session to ensure only those deemed physically and mentally able will directly fly a drone. All learners in this group will be holding the controller at the same time as the workshop leader and directing the controller with some influence rather than complete control.	1	1	

EXAMPLE



# ABANDON NORMAL DEVICES

## RISK ASSESMENT: Sandpit #2 School

### SCHEDULE

Start Date: [REDACTED]  
 End Date: [REDACTED]  
 Daily Start Time: 10:00  
 Daily End Time: 12:00

### GENERAL

Staffing 4 x MLF and UoS staff and invited guests /  
 [REDACTED] has a current DBS (previously CRB) check, there will always be staff present from [REDACTED] to ensure the safeguarding of the learners is protected.

Participants 10 x Students  
 Welfare Provisions Toilets & first aid

### LOCATION

[REDACTED]

### Workshop- Effecting groups A & B

NO	TASK	HAZARD (HARM)	CAUSE	LIKE - LIHOOD	SEVERITY	ACCEPT Y/N	CONTROLS	LIKE - LIHOOD	SEVERITY	ACCEPT Y/N
1	Setting up general technical equipment	Trip hazard	Electrical wires running around and electrical equipment present.	3	2	N	Crew will all be aware of the wires and all wires will be arranged out of walkways and checked regularly by crew.	1	2	Y
2	Risk of drone crashing into the floor, walls or property	Scatched property/building.	Drone flying into walls or floor through pilot error.	4	0	N	The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.	1	0	Y



# ABANDON NORMAL DEVICES

	in the venue indoors.						<p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p>	<p><u>1</u></p> <p><u>1</u></p> <p><u>1</u></p> <p><u>1</u></p> <p><u>1</u></p>	<p><u>0</u></p> <p><u>0</u></p> <p><u>0</u></p> <p><u>0</u></p> <p><u>0</u></p>	
<u>3</u>	Risk of drone crashing into a person indoors.	Bruising or scratched skin.	Drone flying into a person through pilot error.	<u>2</u>	<u>1</u>	<u>N</u>	<p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room.</p>	<p><u>1</u></p> <p><u>1</u></p> <p><u>1</u></p> <p><u>1</u></p> <p><u>1</u></p> <p><u>1</u></p>	<p><u>1</u></p> <p><u>1</u></p> <p><u>1</u></p> <p><u>1</u></p> <p><u>1</u></p>	<u>Y</u>



# ABANDON NORMAL DEVICES

							The nano drones will only be handled by staff members, whilst the controller is not in anyone else's hand to avoid sudden flight or propeller movement whilst in the staff members hands.	1	1	
							If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.	1	1	
4	Risk of drone crashing into a person not taking part in the workshop indoors.	Bruising or scratched skin.	Drone flying into a person through pilot error.	1	1	N	<p>Signs will be placed on the doors to the room indicating that drones will be flown for an hour and the specific times. This way non workshop staff assisting will not accidentally walk into the room.</p> <p>Other building staff will be briefed on when it is safe to enter the room prior to the workshop.</p> <p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room. Being away from the doors should prevent the likelihood of a drone crashing into a person suddenly entering the room.</p>	1	1	Y



# ABANDON NORMAL DEVICES

							<p>The nano drones will only be handled by staff members, whilst the controller is not in anyone else's hand to avoid sudden flight or propeller movement whilst in the staff members' hands.</p> <p>If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.</p>	1	1	
<u>5</u>	Risk of feeling dizzy whilst using virtual reality.	Feeling dizzy	Using virtual reality goggles	<u>2</u>	<u>1</u>	<u>N</u>	<p>Staff showing the guests the virtual reality will warn them that they may feel dizzy with motion sickness when using the devices.</p> <p>Anyone who feels dizzy will take off the glasses.</p> <p>If the dizziness persists beyond a minute the first aider will assess if the symptoms warrant further medical attention, and take the guest to further assistance if so.</p>	1	<u>2</u>	<u>Y</u>
<u>6</u>	Risk of battery catching fire when charging.	Fire starting	A battery is over charged and catches fire.	<u>1</u>	<u>5</u>	<u>N</u>	<p>The batteries will be stored within a fireproof bag whilst they are charging.</p> <p>The batteries will be monitored by a member of staff whilst charging so that they are not overcharged.</p>	1	<u>5</u>	<u>Y</u>
<u>7</u>	Risk of drone crashing into the floor, walls or property in the venue outdoors.	Scratched property/building, broken plant.	Drone flying into walls, cars, plants or floor through pilot error.	<u>4</u>	<u>0</u>	<u>N</u>	<p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the staff member from Venture Arts flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p>	1	<u>0</u>	<u>Y</u>



# ABANDON NORMAL DEVICES

							The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.	1	0	
<u>8</u>	Risk of drone crashing into a person outdoors.	Bruising or scratched skin.	Drone flying into a person through pilot error.	<u>2</u>	<u>1</u>	<u>N</u>	<p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls of the garden centre or centre property.</p> <p>The staff member will be physically close to the to the staff member from Venture Arts flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the space away from the staff, guests and doors to the room.</p> <p>The nano drones will only be handled by staff members, whilst the controller is not in anyone else's hand to avoid sudden flight or propeller movement whilst in the staff member's hands.</p> <p>If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.</p>	1	1	<u>Y</u>
<u>9</u>	Risk of drone crashing into a	Bruising or scratched skin.	Drone flying into a person through	<u>1</u>	<u>1</u>	<u>N</u>	Signs will be placed on the doors to the outdoor area indicating that drones will be flown for an hour and the specific times. This way other staff will not accidentally walk into the room.	1	1	<u>Y</u>



# ABANDON NORMAL DEVICES

	person not taking part in the workshop outdoors.		pilot error.				<p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room. Being away from the doors should prevent the likelihood of a drone crashing into a person suddenly entering the room.</p> <p>The nano drones will only be handled by staff members, whilst the controller is not in anyone else's hand to avoid sudden flight or propeller movement whilst in the staff members' hands.</p> <p>If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	
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# ABANDON NORMAL DEVICES

## RISK ASSESMENT: Project Daedalus – Sandpit BBC

### SCHEDULE

Start Date: [REDACTED]  
 End Date: [REDACTED]  
 Daily Start Time: 13:00  
 Daily End Time: 15:00

### GENERAL

Staffing 4 x MLF and UoS staff  
 Participants 20 x BBC Staff  
 Welfare Provisions Toilets and first aid

LOCATION [REDACTED]

### Workshop- Effecting groups A B & C

NO	TASK	HAZARD (HARM)	CAUSE	LIKE - LIHOOD	SEVERITY	ACCEPT Y/N	CONTROLS	LIKE - LIHOOD	SEVERITY	ACCEPT Y/N
1	Setting up general technical equipment	Trip hazard	Electrical wires running around and electrical equipment present.	3	2	N	Crew will all be aware of the wires and all wires will be arranged out of walkways and checked regularly by crew.	1	2	Y
2	Risk of drone crashing into the floor, walls or property in the venue indoors.	Scratched property/building.	Drone flying into walls or floor through pilot error.	4	0	N	The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.  The guest will fly a nano drone under the direct supervision of an	1	0	Y





# ABANDON NORMAL DEVICES

							<p>experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>0</p> <p>0</p> <p>0</p> <p>0</p>	
<b>3</b>	Risk of drone crashing into a person indoors.	Bruising or scratched skin.	Drone flying into a person through pilot error.	<b>2</b>	<b>1</b>	<b>N</b>	<p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room.</p> <p>The nano drones will only be handled by staff members, whilst the</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<b>Y</b>



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							controller is not in anyone else's hand to avoid sudden flight or propeller movement whilst in the staff members hands.			
							If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.	1	1	
<u>4</u>	Risk of drone crashing into a person not taking part in the workshop indoors.	Bruising or scratched skin.	Drone flying into a person through pilot error.	<u>1</u>	<u>1</u>	<u>N</u>	<p>Signs will be placed on the doors to the room indicating that drones will be flown for an hour and the specific times. This way non workshop staff assisting will not accidentally walk into the room.</p> <p>Other building staff will be briefed on when it is safe to enter the room prior to the workshop.</p> <p>The drones flown by guests will be nano drones (size of a hand) they will all have propeller guards in place. The propeller guards protect the building, drone and people from risk of harm from the nano drone's rotors. Contact with moving rotors would cause a scratch on a soft building surface such as textured wallpaper. The guards will prevent this from happening accidentally.</p> <p>The guest will fly a nano drone under the direct supervision of an experienced staff member.</p> <p>The guest will complete a verbal induction to flying from the staff before flight, this will include how to safely land the drone and to not fly close to walls and fixtures.</p> <p>The staff member will be physically close to the guest flying the drone, and able to adjust the controls if necessary.</p> <p>The guest and staff member operating the drone stand a distance away from any others in the room to avoid possible jostling.</p> <p>The guests will only fly nano drones that have been safety checked before use. There will be a member of staff whose job it is to ensure these checks take place before and after every flight. This will minimise the risk of unintended flying directions.</p> <p>The nano drones will be placed at the far side of the room away from the staff, guests and doors to the room. Being away from the doors should prevent the likelihood of a drone crashing into a person suddenly entering the room.</p> <p>The nano drones will only be handled by staff members, whilst the controller is not in anyone else's hand to avoid sudden flight or</p>	1	1	<u>Y</u>



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							propeller movement whilst in the staff members hands. If the guest or staff member flies the drone in proximity to people, the drone will be landed or directed to be landed by the staff member.	<b>1</b>	<b>1</b>	
<b><u>5</u></b>	Risk of feeling dizzy whilst using virtual reality.	Feeling dizzy	Using virtual reality googles	<b><u>2</u></b>	<b>1</b>	<b>N</b>	Staff showing the guests the virtual reality will warn them that they may feel dizzy with motion sickness when using the devices.  Anyone who feels dizzy will take off the glasses.  If the dizziness persists beyond a minute the first aider will assess if the symptoms warrant further medical attention, and take the guest to further assistance if so.	<b>1</b>  <b>1</b>	<b><u>2</u></b>  <b><u>2</u></b>	<b><u>Y</u></b>
<b><u>6</u></b>	Risk of battery catching fire when charging.	Fire starting	A battery is over charged and catches fire.	<b>1</b>	<b><u>5</u></b>	<b>N</b>	The batteries will be stored within a fireproof bag whilst they are charging.  The batteries will be monitored by a member of staff whilst charging so that they are not overcharged.	<b>1</b>	<b><u>5</u></b>	<b><u>Y</u></b>