

Risk Assessment for class programming of Mini Drones in Primary Schools (Y2 to Y6)

Identified Element	Hazard	Control Measures
Drone flight	Loss of control	<ul style="list-style-type: none"> • Flights will be brief and children trained in emergency procedures (e.g. children will code an emergency button before flying starts). • Pupil groups (of no more than 4 children) will be working in their defined areas. • The teacher will have a whistle which will be blown should there be a loss of control situation to warn all students.
Drone flight	A drone in flight contacts with a student or staff member.	<ul style="list-style-type: none"> • Indoor hulls must be fitted and in good condition (thus providing a high level of protection from rotating propellers). • Students should be told not to attempt to catch a flying drone. • Drones must not take off or land from / in students' hands etc. • Students and staff will wear long sleeve shirts to protect the arms. • Students with long hair should be required to tie it back
Drone flight	Loss of control link and potential loss of direct control.	<ul style="list-style-type: none"> • Drones should only be flown indoors and in a sufficiently large, clear space (e.g. the school hall). • Drone control should be via an app where a specific drone can be allocated to a specific iPad so that drones cannot accidentally be connected to the wrong controller. (Tynker with "classroom mode" enabled in <i>settings</i> is recommended).
Drone flight	Spectators	<ul style="list-style-type: none"> • Spectators will not normally be a feature of the lesson. • Where they are, the teacher will be monitoring for spectators who are encroaching on the operational area. • If this occurs, spectators will be asked to stay back and away from flying drones.
Drone operation	Parts (such as rotors) become separated from the drone	<ul style="list-style-type: none"> • Drones will be inspected prior to flight and again at the end of a session. Defective parts should be replaced..
Drone operation	Appropriate supervision	<ul style="list-style-type: none"> • Teacher will always be supervising the operation. A minimum of two adults will always be present in the lesson.
Drone operation	Danger of children tripping when flying / avoiding drones.	<ul style="list-style-type: none"> • Make sure that the space is large enough for the group (the school hall is the only appropriate space in most schools) and that the space is uncluttered. • Children must not be seated at tables when drones are in use. • Discuss with the children the need to remain vigilant at all times during the session.
Drone operation	Danger of inappropriate practice with drone flight outside school.	<ul style="list-style-type: none"> • Discuss good practice in drone flight outdoors and out of school. • Go through the Drone Code with children. (www.dronesafe.uk)