

# Coding with Parrot Mini Drones

**Terminal Objective 1.1:** Follow mini drone safety practices

**Performance Objective 1.1:** While observing and operating mini drones, follow safety practices at all times.

**Enabling Objectives:**

1. Identify Hazards
2. Demonstrate understanding of safety practices for operators and spectators

**Materials and Supplies:**

- Parrot mini drone: Cargo or Mambo
- Quiz 1.1: *Mini Drone Safety Practices*

**Learning Activities:**

1. Video ROAV mini 1.1 v1
2. Discussion of possible risks

**Summative Assessment:**

1. Quiz 1.1: *Mini Drone Safety Practices* with answer key

**Supplemental teacher resources:**

- Know before you fly (FAA rules for drones)  
<http://knowbeforeyoufly.org/>

## Quiz 1.1: Mini Drone Safety Practices

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Indicate whether the statement is true or false by wiring T for true or F for false next to the statement.



1. \_\_\_\_ It is ok to fly a drone over people
2. \_\_\_\_ The fly zone is safe to stand in while drone is flying
3. \_\_\_\_ Must fly drone at least 10 ft away from people
4. \_\_\_\_ It's not safe to pick up the drone when props are spinning
5. \_\_\_\_ It's ok to look away from the drone for just a second
6. \_\_\_\_ Safety glasses must be worn when drone is in operation
7. \_\_\_\_ Safety netting is required while flying more than one drone in an area

List two possible risks while operating the mini drone drone

- 8.
- 9.

Read the following statement:

*I understand and will follow the practices outlined in this lesson while participating in this activity.*

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## Quiz 1.1: Mini Drone Safety Practices

### Answer Key

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Indicate whether the statement is true or false by writing T for true or F for false next to the statement.



10. F It is ok to fly a drone over people
11. F The fly zone is safe to stand in while drone is flying
12. T Must fly drone at least 10 ft away from people
13. T It's not safe to pick up the drone when props are spinning
14. F It's ok to look away from the drone for just a second
15. T Safety glasses must be worn when drone is in operation
16. T Safety netting is required while flying more than one drone in an area

List two possible risks while operating the mini drone

Answers can come from discussion

17. Props could break on impact
18. Drone could fail and fall out of sky

## Outline Video 1.1 Safety

- I. Props and guards
- II. Safe zone (operator and spectators)
- III. Fly zone (drone)
- IV. Only one drone in the air at a time. (Unless safety nets are used)
- V. Rules for operators
  - A. Always wear safety glasses
  - B. Only the operator who holds the remote control can touch the minidrone
  - C. Never handle the drone while props are spinning
  - D. Operator is responsible for all drone movements
  - E. Always fly more than 10 ft away from spectators
  - F. Never fly over people
- VI. Rules for spectators
  - A. Never touch the drone
  - B. Stay in the designated safe zone
  - C. Never take your eyes off the drone