# Drone: Efficient Drone Control with Loops

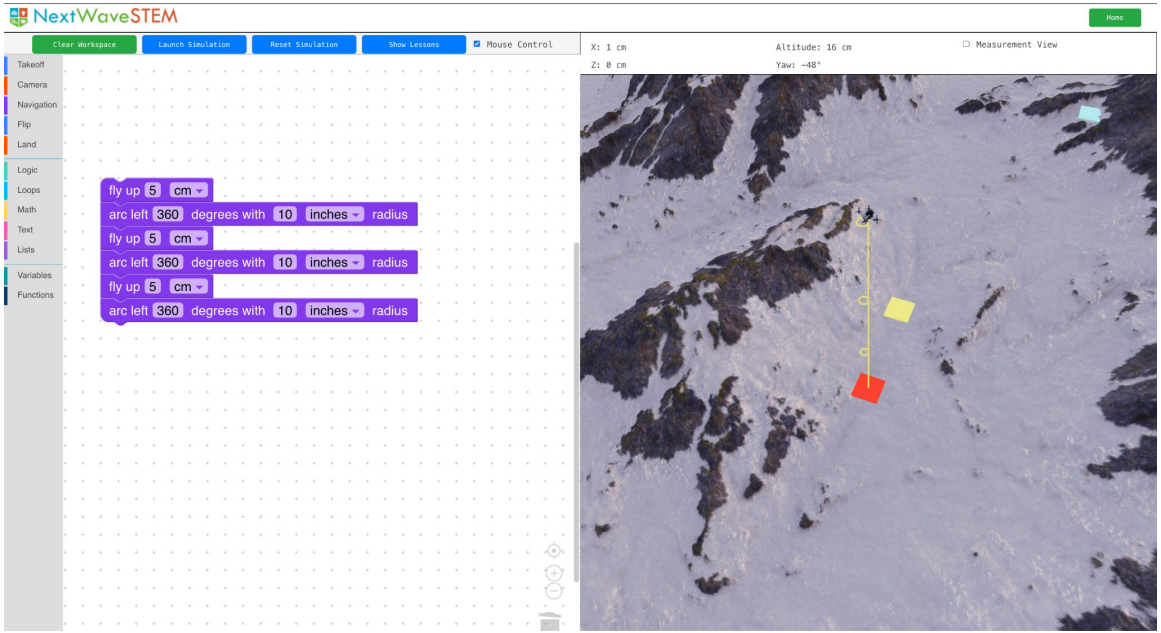
Welcome to Drone Flight Basics!

Loops help us repeat tasks without writing the same instructions multiple times.

- repeat x times: Repeats a set of instructions a specific number of times.
- while condition: Executes a block of code as long as a condition is true.

"Loops are especially useful for creating patterns, exploring large areas, or performing repeated actions like flips or photos."

# Drone Loops

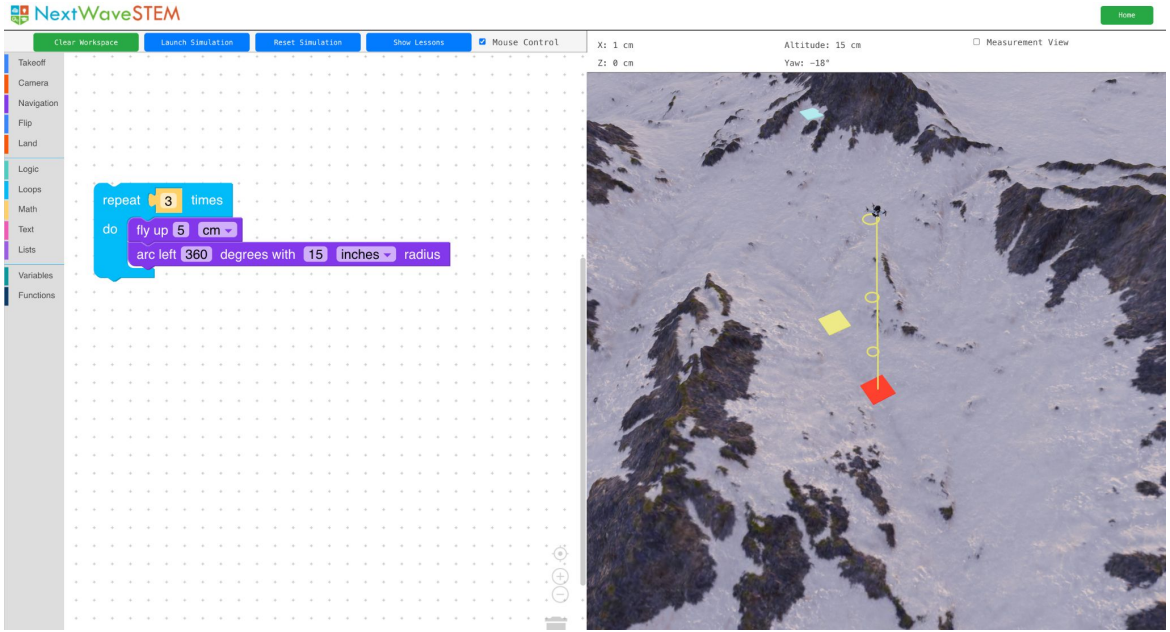



What is the outcome of this launch?What is the outcome of this launch?

Show your instructor the image captured by the dorne.

# Drone Loops:

**Loops are especially useful for creating patterns, exploring large areas, or performing repeated actions like flips or photos.**

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# Now It's Your Turn!
# Experimenting with Drone Movement

**Your Task:**

1. Use a loop to fly the drone in a square path.
2. The drone should move forward 10 cm, then turn 90° to the right, and repeat this four times to complete the square.
3. Land the drone on the yellow platform.

**Blockly Steps:**

- Use a repeat 4 times loop to execute:
  - flying_forward_distance (10 cm)
  - yaw_right (90°)
- Add land after the loop ends.