



**STUDENT ACTIVITY
SAMPLES**

EXPLORE OUR STUDENT ACTIVITIES

Grades K-3



LITTLE LEGENDS

Pages 1-16

Grades 4-8



STEM FUNDAMENTALS

Pages 17-34

Grades 8-12



FPV INITIATOR

Pages 35-50



Scavenger Hunt

Teacher Slides



Scavenger Hunt - Week Overview

Materials

Starter Kit Materials:	Story Theme Materials:	Printables Needed:	Materials not provided:
<ul style="list-style-type: none">• 4 x Mission Mat• 4 x Little Legends Base Cards• 4 x Gimbal Character Playing Pieces• 1 pack of poly dots	<ul style="list-style-type: none">• Scavenger Hunt Story• 4 x Legendale Neighborhood Game Cards (blue back)• 4 x Legendale Neighborhood Coding Cards (green back)	<ul style="list-style-type: none">• Airplane Templates (several per student)• Activity Sheets (1 per student)	<ul style="list-style-type: none">• Crayons, markers, or colored pencils

Scavenger Hunt - Week Overview

Daily Schedule

Day 1 (45 min)

Theme: Read

Activity:

Read: Scavenger Hunt

Physical Game: Find the Clues

Day 2 (45 min)

Theme: Explore

Activity:

Board Game: Clue Connector

Day 3 (45 min)

Theme: Code

Activity:

Unplugged Coding Mission: Scavenger Hunt

Day 4 (45 min)

Theme: Engineer

Activity:

STEM: Paper Airplane

Day 5 (45 min)

Theme: Design

Activity:

Art: Activity Pages

Review and Repeat Any Activity

Step 4: Download the software & update your drones

Download the following 3 apps onto each of the Android or iOS devices you will be using.



Tello flight app: <https://www.dji.com/downloads/djiapp/tello>



Note: as of 9-1-2023, the Android version of the Tello flight app is not available on the Google Play Store. It must be downloaded and installed on your Android device using the link above or by scanning this QR code. Your IT department may need to approve the download. If you experience any issues email support@dronelegends.com. We're here to assist you.



Droneblocks coding app:

[iOS \(Mac - iPad\)](#)

[Google Play \(Android\)](#)

Day 1 - READ

Overview

Lesson Duration: 45 minutes

Story	Read Scavenger Hunt out loud	10 min
Physical Play	Play Find the Clues	25 min
Wrap Up	Clean up and discuss	10 min

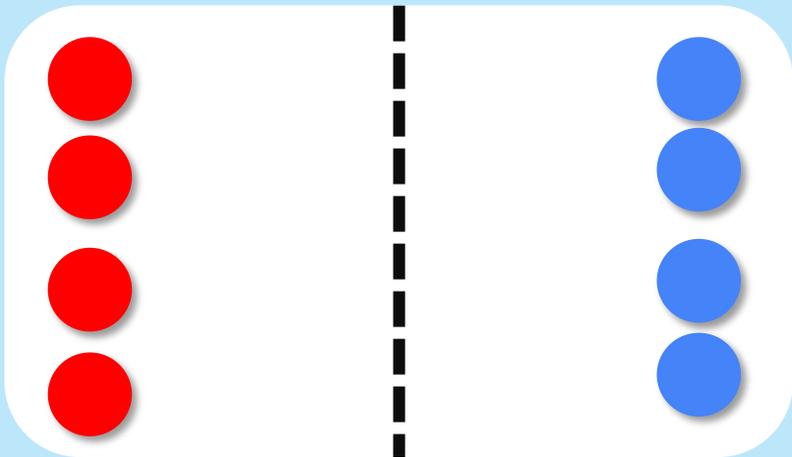
Day 1

Game Prep

Set-Up

Select 4 poly dots of the same color for Team one and 4 poly dots of another color for Team two. These will be their clues.

Mark the middle of the room. The unused colored poly dots, tape, or string can be used for this.



Game Play

Play like Capture the Flag: Similar to capture the flag, give each team time to hide 4 dots, or clues, on their side of the room. When the teacher calls go, the students try to race across the middle line to find the other team's clues. If they are on the other team's side of the line, that team can tag them, and they have to sit down until a person on their team tags them. If the player is holding a clue when they are tagged, they sit down with the clue. A player from their team can get the clue from them. The game continues until one of the teams finds all of the other team's clues.

Example: A player from Team 1 races to Team 2's side to find a clue hidden under a chair. The player gets tagged right before reaching the chair and has to sit down. Another player from Team 1 tags him and he runs to get the clue. As he is running back to his side, he gets tagged again and sits down with the clue. Another player from Team 1 goes and gets the clue from him and runs it back to their side.

Alternatives: If the tagging component is too much, just have each team hide the clues on their side and then each team tries to find all four hidden clues first. You could also make it so that the team members can only tag someone from the other team when they have a clue.

Welcome



Today we are going to read
a story and then play a
game called Find the Clues.

Day 1 - READ

Story



Have you ever had to take turns with someone?

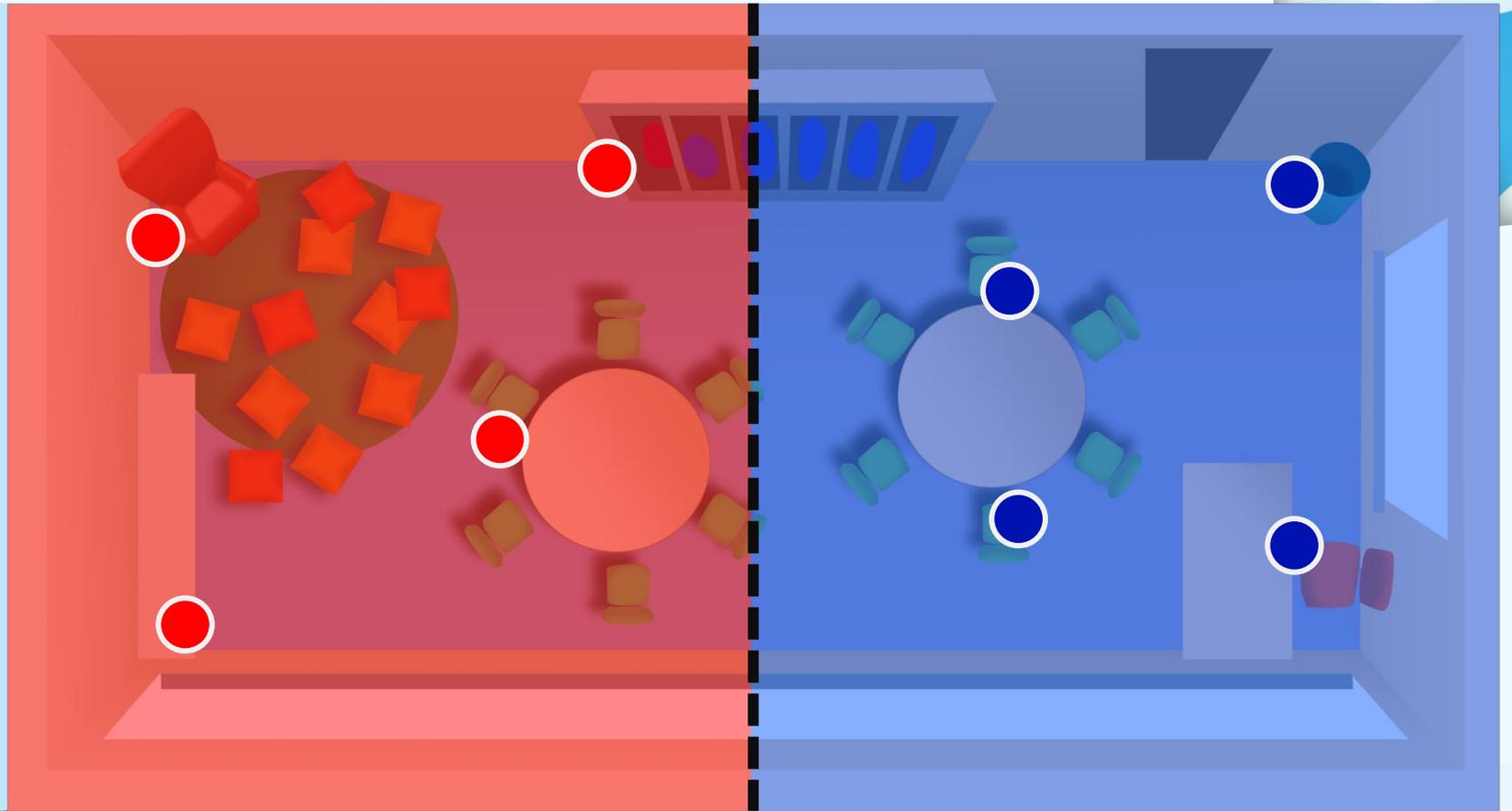
How do you feel when you have to take turns?

Day 1

- Physical Play

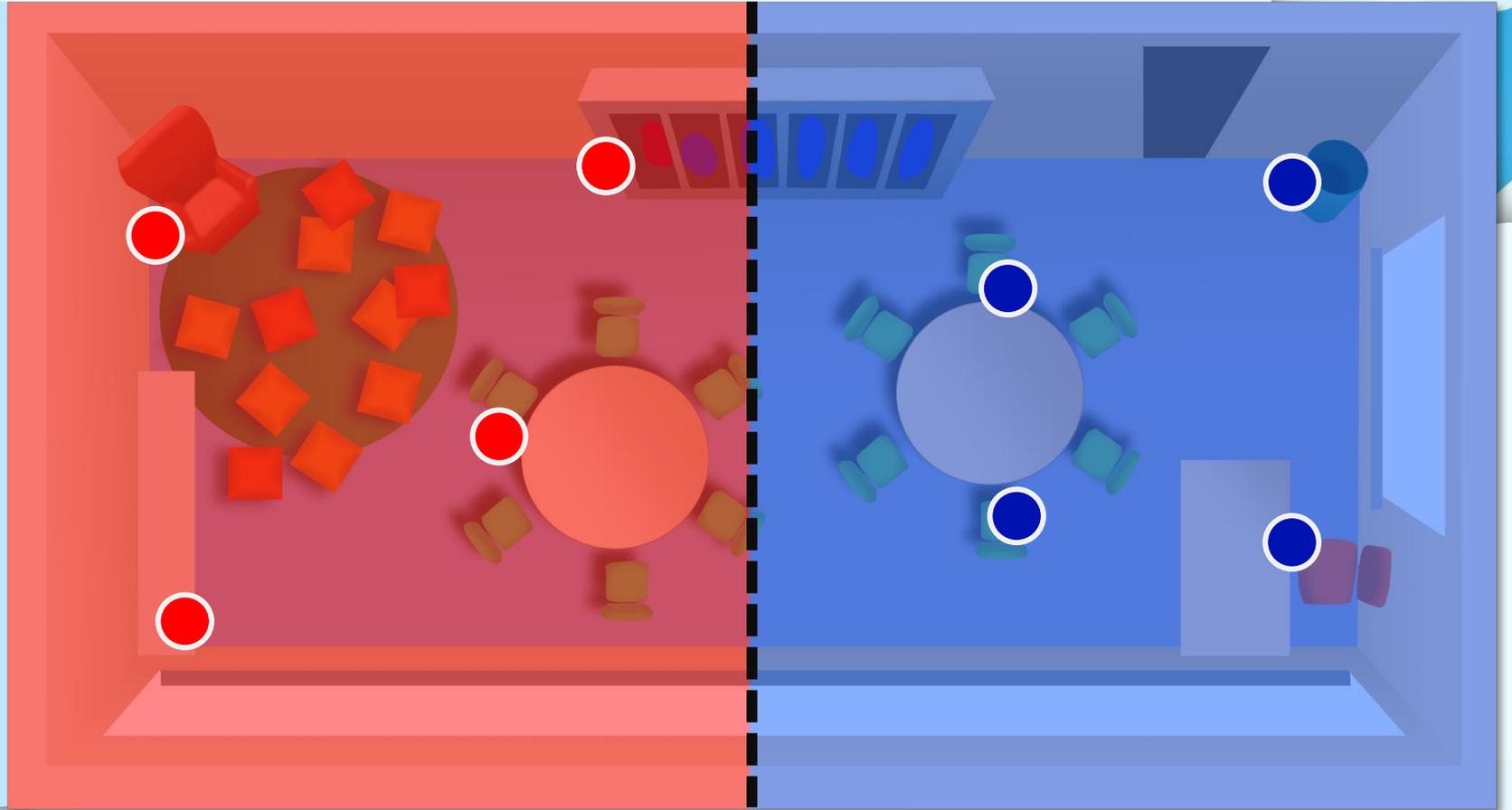
How to play Find the Clues...

Hide your clues
on your side of
the room.



Day 1

When I say, "Go,"
race to find the
clues on your
opponent's side
of the room.



Day 1

If you get tagged...



Day 1

Sit down and wait for a teammate to come to you.



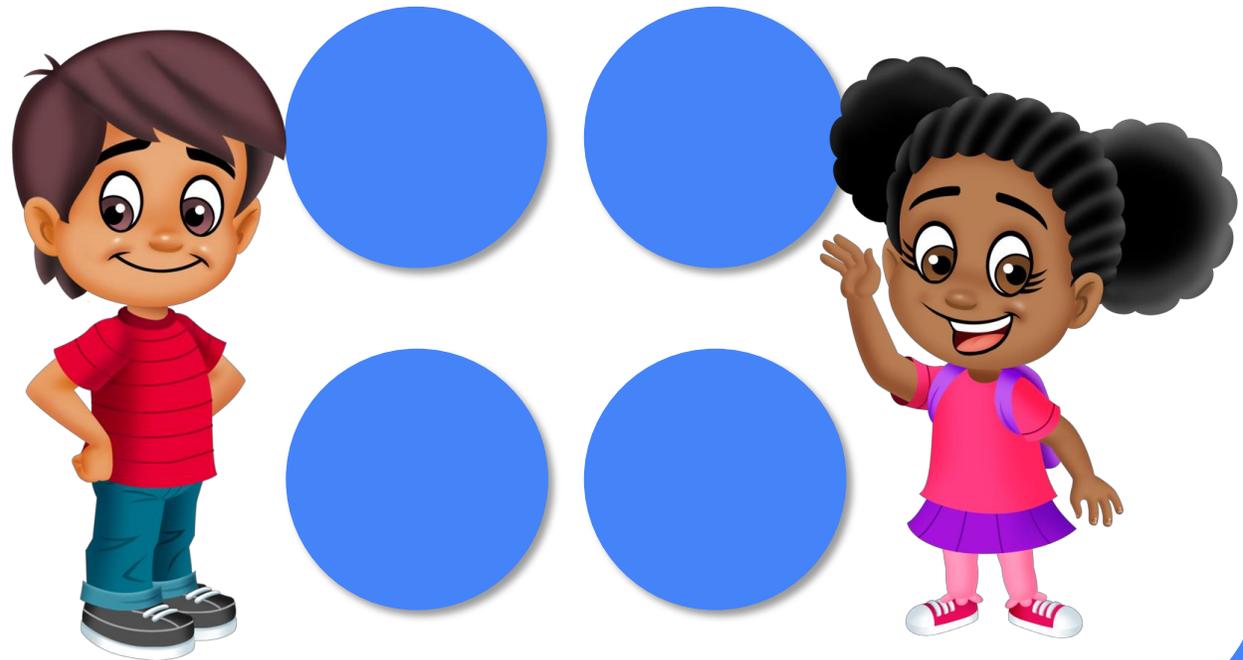
Day 1

Your teammate can tag you and set you free or take your clue back to your side.



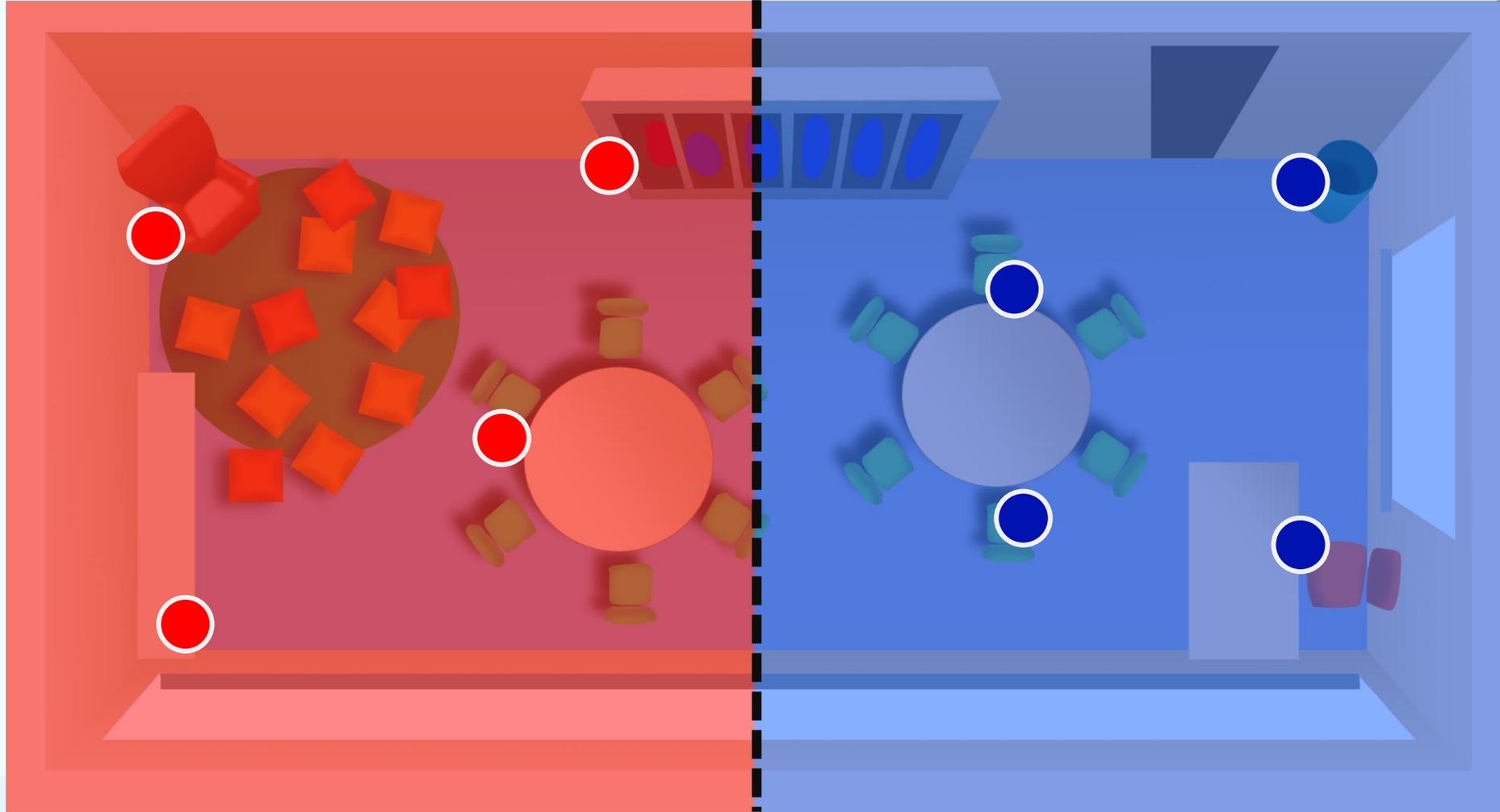
Day 1

The first team to gather all 4 clues of the opposite team wins.



Day 1

Lets play Find the Clues!



Day 1 - READ

Wrap up

What can you do to be legendary when taking turns?





FUNDAMENTALS
Mission Guide



Drone Legends Fundamentals: Mission Guide

SECOND EDITION

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www.dronelegends.com

For more information:
info@dronelegends.com



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Tello® is a registered trademark of Shenzhen RYZE Tech. Co., Ltd

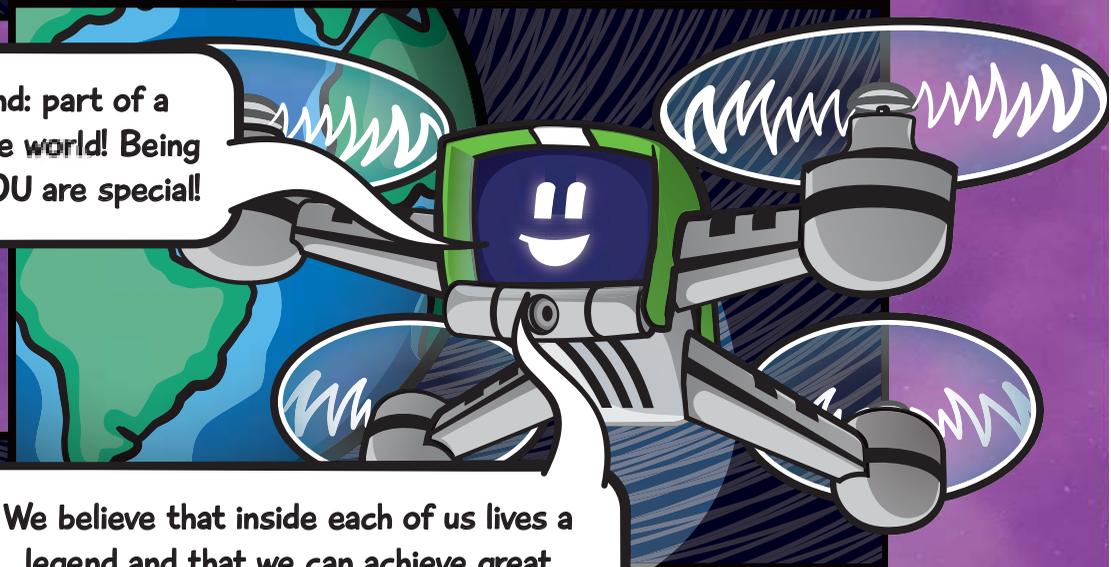
*NGSS is a registered trademark of WestEd. Neither WestEd nor the lead states and partners that developed the Next Generation Science Standards were involved in the production of this product, and do not endorse it.



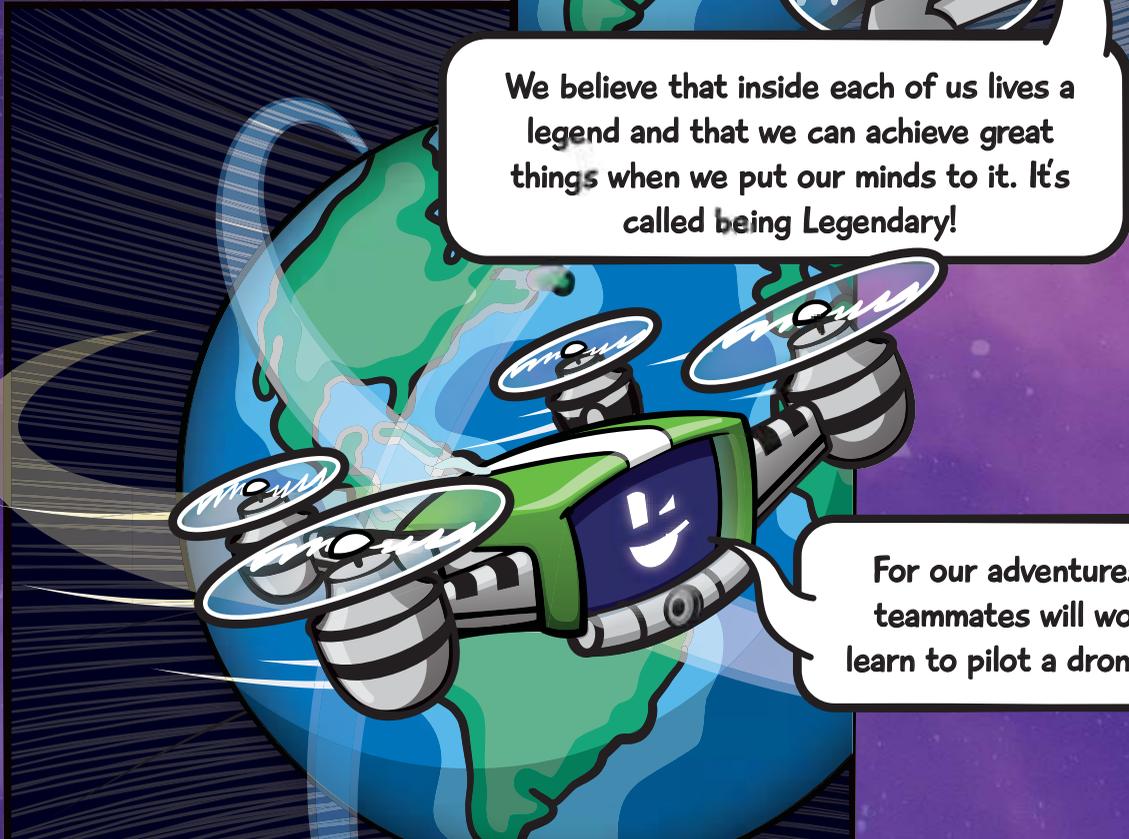
Hi! Welcome to Drone Legends! I'm your guide, Gimbal, an artificial intelligence drone.

That means I am a machine capable of thinking and learning.

I'll be transporting us on fantastic adventures around the world where we'll complete super cool missions!



You are now a Drone Legend: part of a community of kids all over the world! Being a Drone Legend is special. YOU are special!



We believe that inside each of us lives a legend and that we can achieve great things when we put our minds to it. It's called being Legendary!

For our adventures, you and your teammates will work together to learn to pilot a drone. That's so cool!

Your drone will have to fly **AUTONOMOUSLY** on some missions. Do you know what that means?

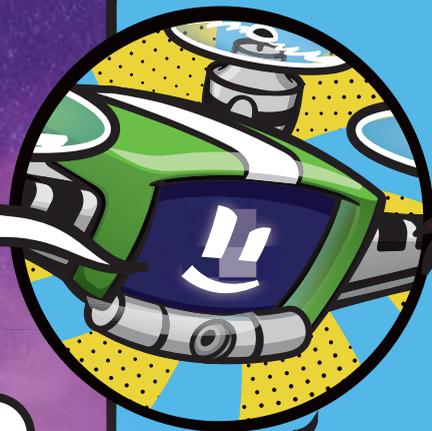
It means by itself, without you piloting it.

How will your drone fly its missions without a pilot? You'll learn to **CODE** it! Pretty neat!

Think of drones as flying cameras that can capture beautiful and useful aerial images. I use my camera all the time! We will be doing that together, too.

Okay, Drone Legends...
Are you ready? I know I am.

Let's FLY!





MISSION 4:
Shark Watch



Mission 4: Shark Watch

Sharks swimming along  Maui's shoreline pose a risk to surfers, swimmers, and scuba divers. The Maui Coast Guard hopes you can use your drone to survey the shore and watch for sharks swimming near surfers. You will start by surveying the whole shore. When you spot a group of sharks, you will make Tello yaw 360 degrees as a signal to alert the Coast Guard.



Looking for sharks in a boat is ineffective because the boat is too close to the water to see the shark, covers space slowly, and disrupts swimmers. Helicopters are faster and have a better view, but they are expensive to operate and require a human pilot.

Drones are inexpensive and fast. They use artificial intelligence so they can spot a shark all by themselves. When they see a shark, they set off an alarm that alerts both the swimmer and the Coast Guard. The swimmer can swim away safely, and the Coast Guard can move the shark further offshore to keep the beach safe.



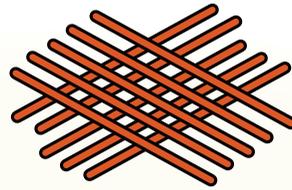
Maui's shark risk is at a dangerous level, and they hope you can help them find the sharks to move them further offshore.

Build the coast

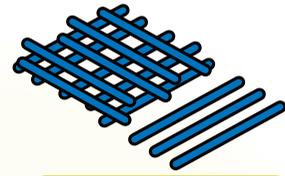
1. Collect 10 long poles, 13 short poles, 10 connector balls, a blue launch pad, and 5 sticky notes from the building station.



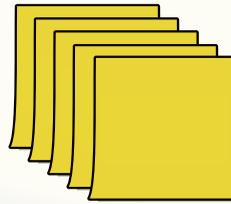
Launch pad X 1



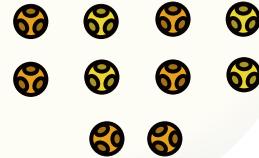
Long poles X 10



Short poles X 13

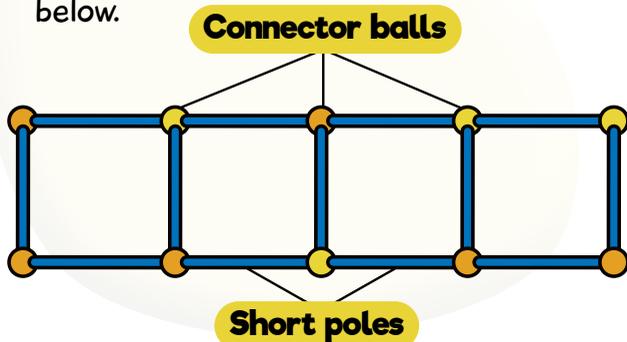


Sticky notes X 5

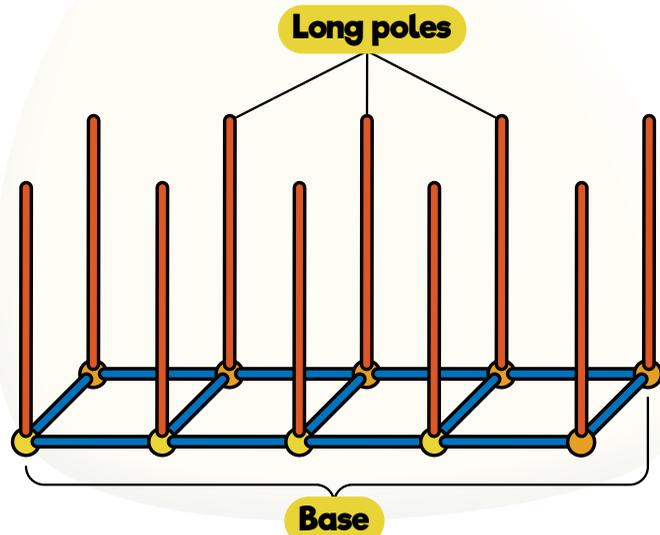


Connector balls X 10

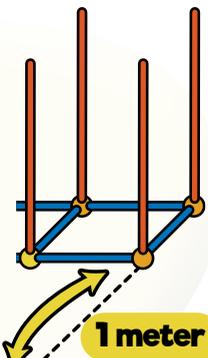
2. Build the base of your shoreline out of short poles and connector balls, as shown below.



3. Add walls to your base using your 10 long poles, as shown in the diagram below.



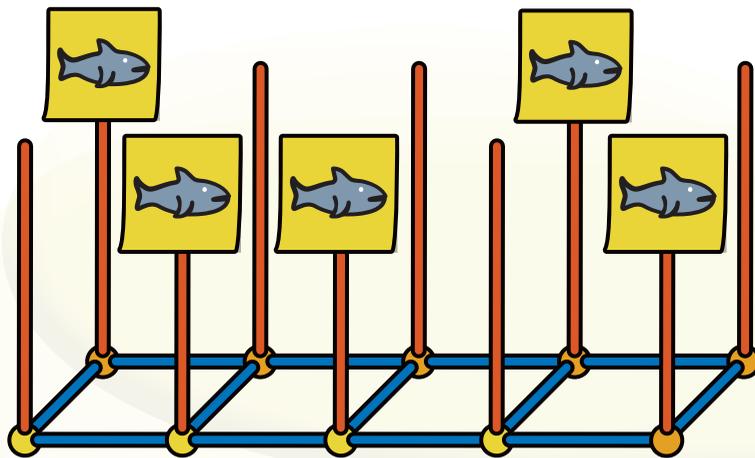
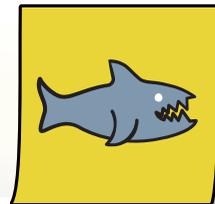
4. Place the Coast Guard watch station (launch pad) about 1 meter away from the shoreline. Line the center of the launch pad up with the right side of the shoreline.



Coast Guard



5. Draw a shark on each of your sticky notes.



Maui shoreline

6. The Pilot will turn around and face away from the shoreline while the Safety and Observer place the 5 sharks anywhere on the shore. No peeking!

When the teacher calls start, the  Pilot turns around and navigates to each shark. When the shark is visible in the camera feed, the  makes Tello turn around by yawing 360 degrees in a circle.

That signals the  Safety to run and grab the shark and move it farther offshore (return to stand next to the  with the with the shark on the launch pad).



Tello and the  should never be moving at the same time. Make sure Tello is hovering and motionless before the  starts to move, and the  should be back at the Coast Guard watch before Tello moves.

When your coastline is set up, get Tello, a battery, and a device. Assign the first roles for each team member.

Time to Fly: Protect the Shore

Welcome to  Maui. The Coast Guard has asked for your help in protecting the island's swimmers. Life-saving missions like these require **integrity***. Thank you for choosing to do what is right so that the swimmers and the Coast Guard can all remain safe!



Write down Tello's SSID in Box 1 of your Mission Notes.

Also, remember to tally the Pilot's points in Box 2 of your Mission Notes!



There are surfers and scuba divers in the water. You have 1 minute to collect as many sharks as you can before the swimmers are in danger of an attack.



Safety Role

Check Tello using the  Safety Checklist. When you finish your check, insert a fresh battery, place Tello on the launch pad, and power on.

Give the  a  when Tello is ready to take off.



Safety checklist



Power button

*Integrity - doing the right thing even when no one is watching.



Stand next to the  Pilot while they fly and watch Tello. Remember that you are acting as the Coast Guard. When Tello yaws 360 degrees, that is your signal! Check the camera feed to make sure you can see a shark, then grab the shark in front of Tello. Return and drop the shark onto the launch pad, then stand next to the .

At the end of the mission, remove the battery and put it into the used battery bin.

Observer Role

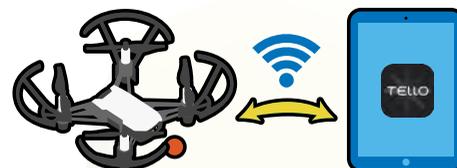
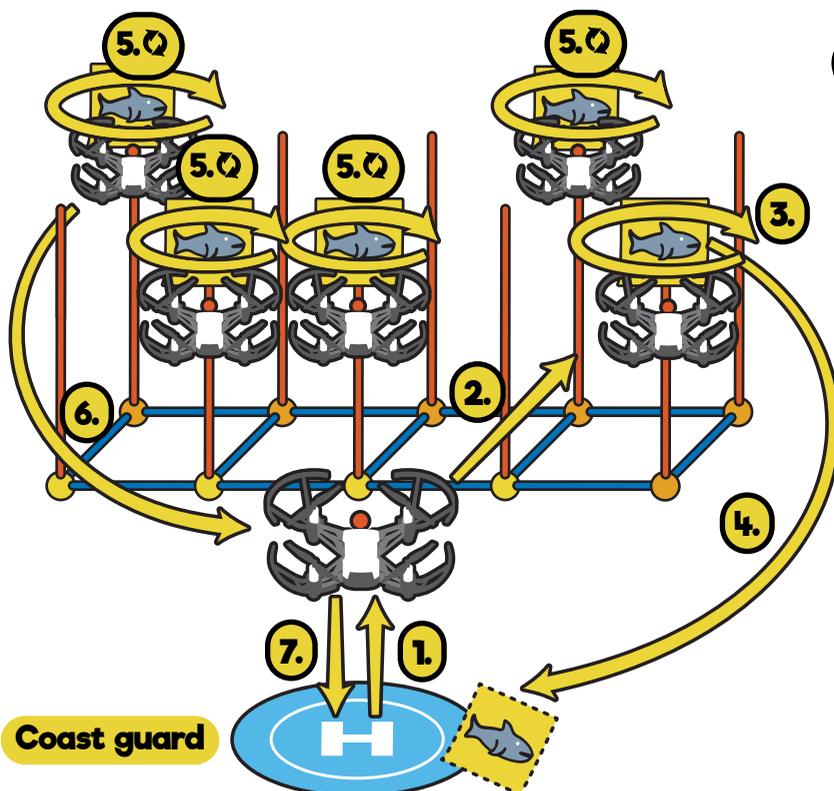
While the  is flying, you will be walking alongside Tello and alerting the  if they are close to anyone or anything.

Alert the  Safety when Tello stops to  Yaw so they can remove and relocate the shark.

Alert the  when the  holds the shark further offshore (on the launch pad), so the  can start moving again.

When the  finishes their flight, help them navigate over the launch pad. Give them the  to land when they are ready.

Pilot Role

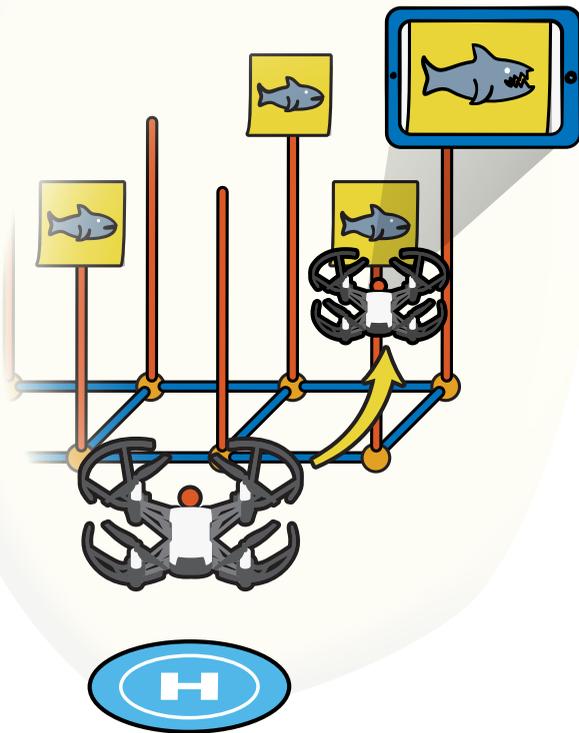


Connect Tello to the Tello app.

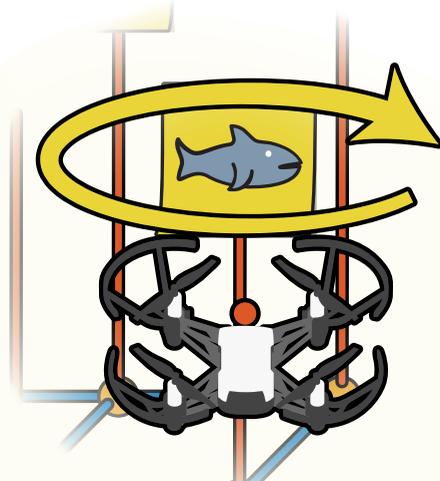
1. Wait for a  from . Take off .



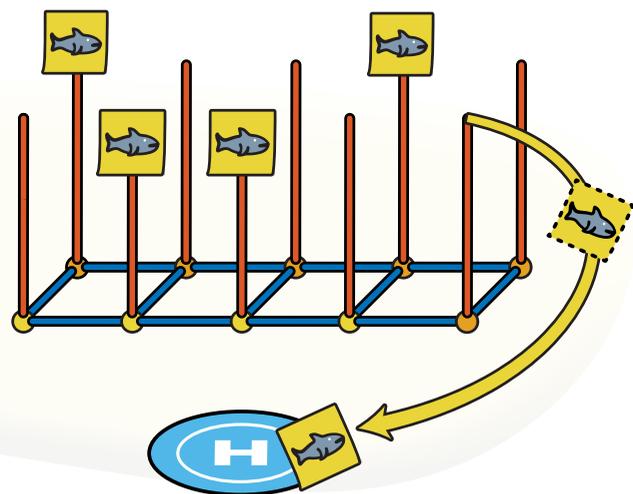
- 2.** Maneuver to a shark so that the shark is visible in the camera feed.



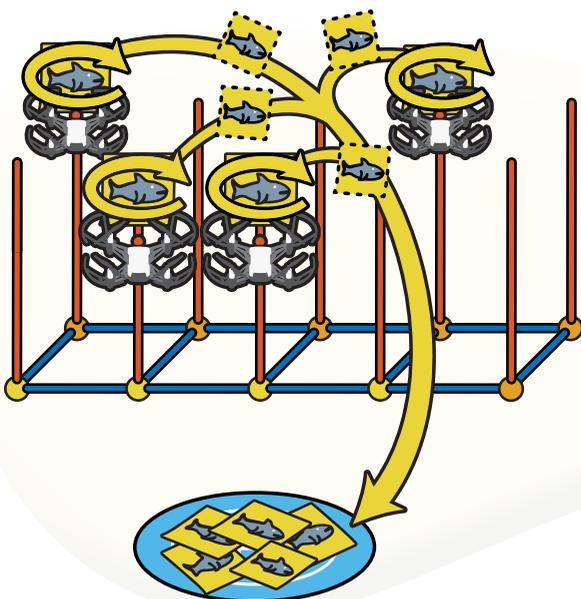
- 3.**  Yaw Tello around 360 degrees to alert the Coast Guard ( Safety) that you see a shark.



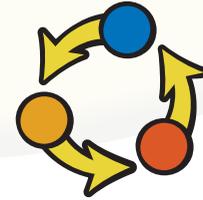
- 4.** Once Tello is hovering but not moving in space, the  can go collect that shark and move it further offshore (drop the sticky note onto the launch pad). Tello should not move again until the  has dropped the shark.



- 5.** Once the  is standing next to the launch pad, the  Pilot repeats steps 2-4, flying to the next shark and alerting the  by yawing around and then hovering in its position.



6. Navigate back to the Coast Guard watch station either when the teacher calls time or when all 5 sharks are found and relocated.
7. Wait for a 👍 from the 👁️ Observer and tap to land.
8. Rotate roles and pass the control to the next 🛩️ Pilot.



When everyone in the group has had a turn in the 🛩️ role, return Tello to the docking station and meet at the 🏫 Academy for a group discussion. While you wait, add your team's total points in Box 2 of your 📝 Mission Notes.

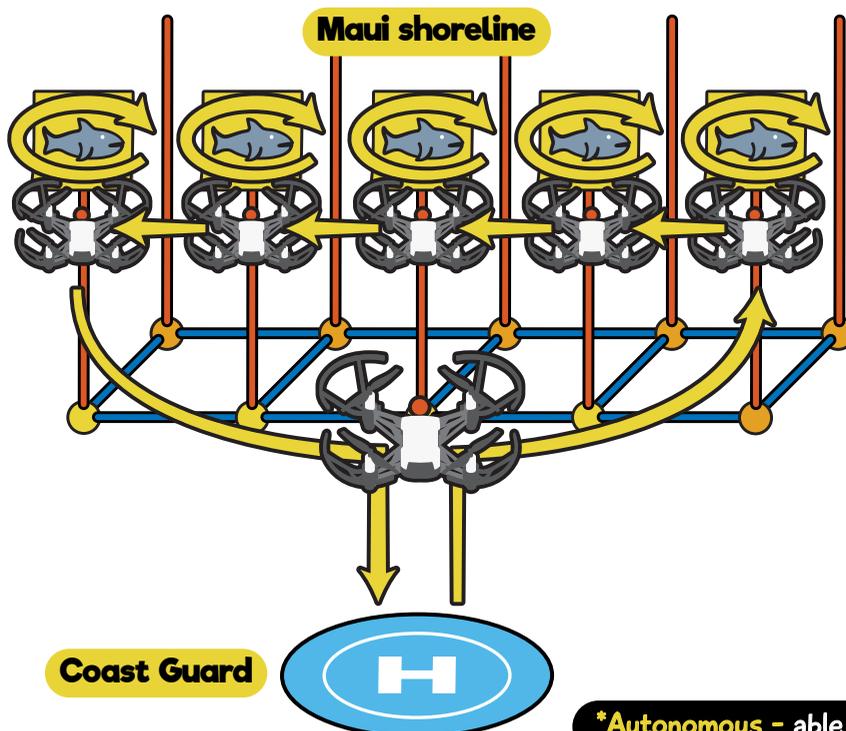
Time to Fly: Shoreline Watch

Answer the question in Box 3 of your Mission Notes.



Now you'll code an **autonomous*** mission to monitor the western stretch of Maui's shoreline. Your goal is to see how many sharks you can get to show up in Tello's camera feed as it flies its mission across the shore.

Stick the sharks to the coastline so that all **5 sharks are on the front poles facing toward you**. You'll write your code so that tello starts at the Coast Guard station and flies forward until you can see the shoreline in the DroneBlocks camera feed.



Tello will then fly to each shark and yaw 360 degrees when it gets to each one. Tello should see each shark in the camera feed before it yaws.

The Coast Guard (🛑 Safety) can collect the sharks as they show up in Tello's camera feed.

*Autonomous - able to fly by itself without human piloting



Measure Takeoff Height

Before you can code a mission, you need to measure the DroneBlocks takeoff height.

This process is the same as the one you did in **M Mission 3: Finding Fumaroles**. For step-by-step instructions, refer to **📖 Measure DroneBlocks Takeoff Height** on page 17 of the **🔧 Operations Manual**.



Write down Tello's takeoff height in Box 4 of your Mission Notes.

When you finish measuring Tello's takeoff height, put Tello in the docking station until you are ready to launch your next mission.

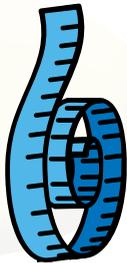
Measure and Plan

All team members will work together to measure and plan your coded mission.

Tello will be in the docking station during this portion of the mission until you check off your team's code on your completed **📖 Code Planner**.

1. Plan your mission using arrows on your Mission Notes. Label them **1.**, **2.**, **3.**, etc., to show where you will move first, second, third, etc.

2. Take measurements for the distance between each shark. Label the arrows you drew in your diagram with the measured distances. Remember to measure in centimeters.



3. Working by yourself, write Tello's flight path on your **📖 Mission Notes** as step-by-step directions, like those you might give to a friend.
4. Each team member should grab a blank **📖 Code Planner** sheet.

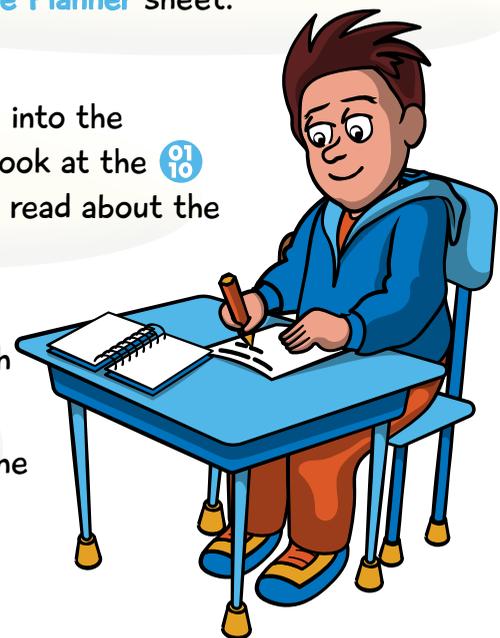
Working by yourself, translate your written instructions above into the coding blocks you plan to use. Open the DroneBlocks app or look at the **📖 Coding Glossary** on page 32 of the **🔧 Operations Manual** to read about the different blocks.

5. When you have your code written out, work together with your teammates and compare your code to theirs.

Discuss your code until you agree upon one code to use for the whole team. Write your team's code into a new column labeled **Team's Code** on your **📖 Code Planner** sheet.



The Mission requires you to label the diagram in Box 5 of your Mission Notes!





6. The pilot will build the code in the DroneBlocks app.



7. When you create the code, tap the **Menu button** in the app's upper right-hand corner. Tap **Show Mission Code** to see the Javascript code. View the code as a team.

Review the JavaScript code from top to bottom. Translate each block into JavaScript in the column next to your block code on your **Code Planner**. Here is an example of what one row of your **Code Planner** might look like.

Take off	takeOff();
Flip forward	flipForward();
Land	land();

Your code should match up with the JavaScript code. Knowing how to code with blocks uses the same logical skills as writing JavaScript code, just with less typing. If you finish this course and are ready to move on to text-based computer coding, you'll already have the logical skills you need. You'll just need to learn the proper language and type a bit more!



Tap the **Menu button** and **Hide Mission Code**.

8. Show your teacher your **Code Planner** and the matching code you built in the DroneBlocks app. If it is all satisfactory, your teacher will give you your Tello and you can fly your coded mission.

Fly the Code

Read through all group roles before beginning the mission!



Safety Role

Check Tello using the **Safety Checklist** to make sure it is ready to fly. When you finish your check, place Tello on the launch pad and power on.

Give the **Pilot** a thumbs up when all is ready.



Safety checklist



Power button

Grab the sharks as Tello moves past them if they were visible in Tello's camera feed. Put them further offshore (on the launch pad).

When the mission is complete, power down and remove the battery.

Observer Role

Check the code the  **Pilot** builds in the app.

Walk with Tello as it flies the automated mission. Tell the  to **Abort Mission** if Tello is flying off course or going to hit something.

Pilot Role

1. Wait for the  **Safety** to check Tello and turn Tello on, then connect to the DroneBlocks app.
2. Once you are connected, click on the  **Menu button**. Click on **Launch Mission** and watch as Tello completes your instructions.
3. If your measurements didn't work as well as planned, quickly revise your code in DroneBlocks. Rotate roles and run the mission again.

You don't need to revise your  **Code Planner** sheet as you go. Just land Tello, rotate roles, let the new pilot edit your code in DroneBlocks, and launch your mission again. When your code is successful, write down the changes that you made next to your original code on your  **Code Planner** sheet.

Gather at the  **Academy** for a quick discussion about loops. While you wait, you can turn to page 19 of the  **Operations Manual** and read about  **Loops**.

Time to Code: Loop the Shore

Instead of scanning the shore once, rotating at each shark, the Coast Guard wants to know if you can scan the shore back and forth 10 times, rotating at each shark.



What will that mission code look like? Probably pretty long. Now imagine the Coast Guard asked you to scan back and forth 100 times? Pretty gnarly, right?

Computers are quite clever, though. Surely there is an easier way to write that code?

If the code repeats itself, you can put the repeating portion into a loop. A loop is a repeating machine. Turn to page 19 of the  **Operations Manual** and read about  **Loops**.

Now you can **refactor*** the  **Shoreline Watch** flying mission you did before, but this time you can use a loop to simplify your previous code.

***Refactor** - rewrite code to make it easier to read or use without changing the coded mission's goal. The code will still do the same thing, but the blocks will be different

Refactor

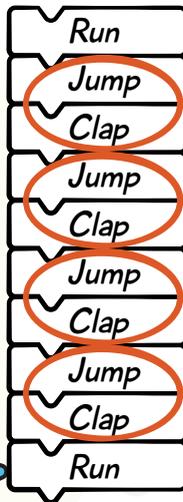
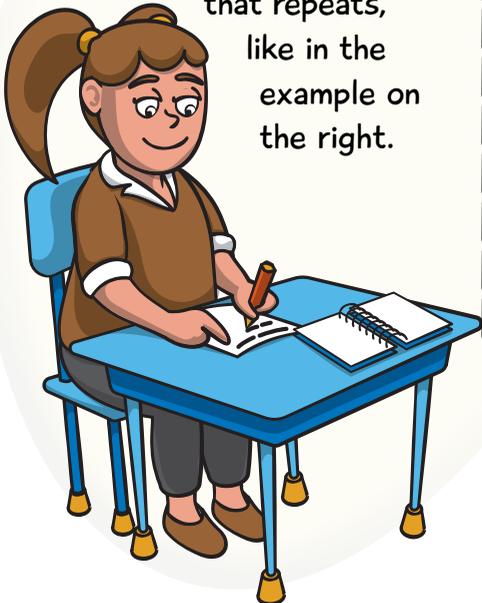
Look at your final code from the **M Shoreline Watch** mission on your **Code Planner**. Work by yourself to do this refactoring.

You might find refactoring a bit tricky at first. Try to stick with it. Just because it doesn't make sense right away doesn't mean you can't do it. With some effort, you can.

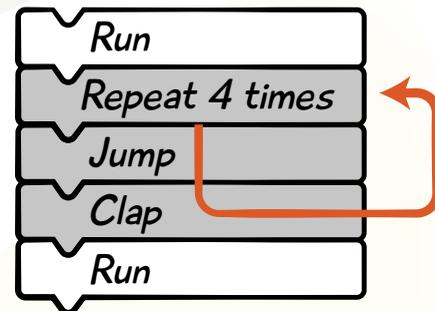


Mission

1. Look for a repeating pattern. Circle the portion of the code that repeats, like in the example on the right.



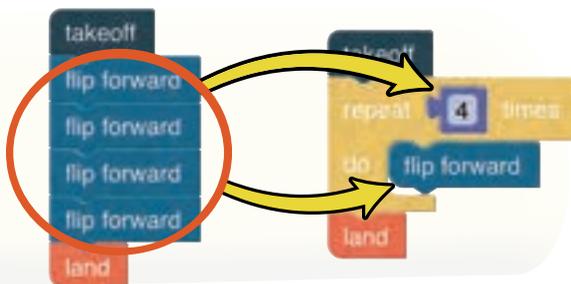
2. Count the number of times the pattern repeats, as shown here on the left.



3. Now write the repeating pattern inside the loop in a new column. Write out the number of times your loop repeats. Below the loop block, write the repeating pattern. Draw an arrow connecting the loop block to its repeating pattern, as shown above.

4. When you have your code written out, work together with your teammates and compare your refactored code to theirs. Discuss your code until you agree upon one looped code to use for the whole team. Write your team's code into a new column labeled **"Team's Code"** on your **Code Planner** sheet.

5. The **Pilot** will build the code in the DroneBlocks app.



6. Show your teacher your **Code Planner** sheet and the matching code you built in the DroneBlocks app. If it is all satisfactory, your teacher will give you your Tello and you can fly your coded mission.



Read through all group roles before beginning the mission!

Fly the Code

Safety Role

Check Tello using the  **Safety Checklist** to make sure it is ready to fly. When you finish your check, place Tello on the launch pad and power on.

Give the  **Pilot** a  when all is ready.



Safety checklist



Power button

Grab the sharks as Tello moves past them and puts them further offshore (on the launch pad).

When the mission is complete, power down Tello and remove the battery.

Observer Role

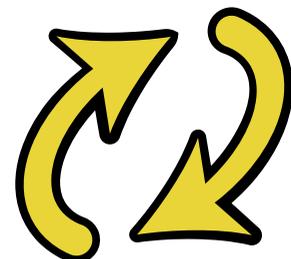
Check the code the  builds in the app.

Walk with Tello as it flies the automated mission. Tell the  to **Abort Mission** if Tello is flying off course or going to hit something.

Pilot Role

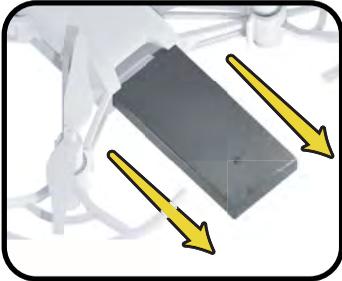
1. Wait for the  **Safety** to check Tello and turn Tello on, then connect to the DroneBlocks app.
2. Once you are connected, click on the  **Menu button**. Click on **Launch Mission** and watch as Tello completes your instructions.
3. If your measurements didn't work as well as planned, quickly revise your code in DroneBlocks. Rotate roles and run the mission again.

You don't need to revise your  **Code Planner** sheet as you go. Just land Tello, rotate roles, let the new pilot edit your code in DroneBlocks, and launch your mission again. When your code is successful, write down the changes that you made next to your original code on your  **Code Planner** sheet.



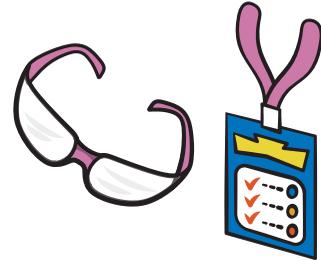
Wrap Up

When your team successfully codes the **M Shoreline Watch** mission, power down Tello.

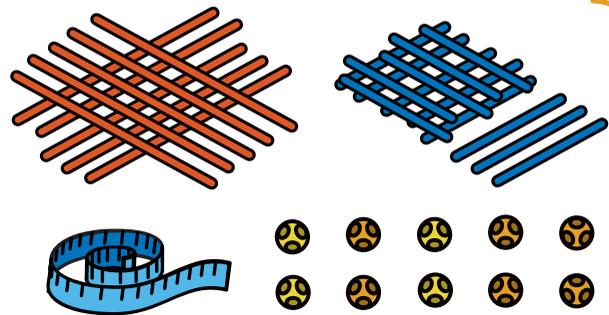


The final **Safety** should pull out the battery and return it to the used battery bin.

The **Safety** is also in charge of returning the safety goggles and **Safety Checklists** to the correct locations.



The final **Observer** is responsible for breaking down and returning the shoreline materials and measuring tapes to the correct locations.



The final **Pilot** should return the launch pads, Tello, and their device to their proper locations. The **Pilot** is also in charge of returning the team's **Mission Guides** and **Operations Manual** to their correct locations.



Your team can gather back at the **Academy** for a wrap-up discussion. Remember to take your pencils, clipboards, and **Mission Notes** with you.

I have one final task for you on this Mission: Answer the question in Box 7 of your Mission Notes.



Your expert piloting and coding skills have kept the surfers at Maui Shoreline safe! It's important to know that most sharks are not dangerous to humans — people are not part of their natural diet. Most attacks on humans occur when the shark is confused or curious. If a shark sees a human splashing in the water, it may try to investigate, leading to an accidental attack. That's why it is important to keep a safe distance and give them plenty of freedom to swim in their waters. Your early detection services with drones make that happen.



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PILOT HANDBOOK



Pilot Handbook
Table of Contents

	Pilot's Prelude: Mastering FPV Drone Basics and Gear Insights #	
	Dialing in Control: A Deep Dive Into Your RC Setup & Configuration #	
	Unleash Your Potential: Simulator Training for Superior Skill Development #	
	Batteries Included: Tips and Tricks for Safe and Effective Use. #	
	Ready, Set, Goggles Up: Setting Your FPV Goggles for the Ultimate Flying Adventure #	
	Meet Your Micro: Understanding Your Drone's Components and Functionality. #	
	Betaflight Basics: Customizing Your Drone's Flight Settings #	
	From Crash to Fix: Learning the Fundamentals of Micro Drone Repair. #	
	First Flight, New Heights: Experiencing FPV Drone Racing in Real Life #	
	The Art of Precision: Mastering Control and Maneuvering. #	
	Breaking Ground: Building Your First FPV Obstacle Course #	
	Mind Over Motors: Navigating Nerves in Your Inaugural FPV Heat. #	

Technical Support and Curriculum Questions

For technical support, please contact fpvtech@dronelegends.com
For curriculum questions, please contact fpvcurriculum@dronelegends.com



FPV Initiator Pilot Handbook

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MODULE 1 - PILOT'S PRELUDE: MASTERING FPV DRONE BASICS AND GEAR INSIGHTS



Welcome to the FPV Initiator Program!

In this program, we will:

- Understand FPV drone piloting.
- Identify the materials and technical aspects required to fly and race drones in person and in a simulated environment.
- Understand real-world applications of drone technology and explore
- potential career pathways in the drone industry.
- Fly an FPV Micro Drone.

Module 1 Objectives:

- Understand the gear provided for drone racing.
- Work together as a racing team.
- Bind the Orqa FPV Controller to the Micro Drone.
- Link the Orqa FPV Goggles to the Micro Drone.

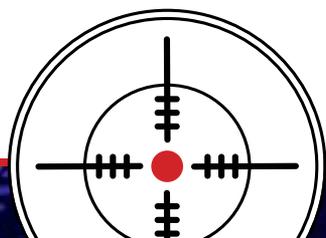
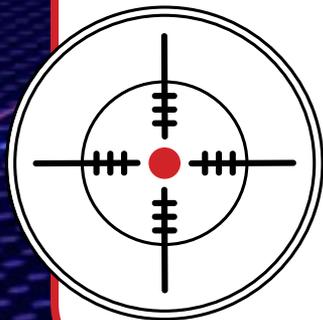


PRECISION DRONE PILOTING



A precision drone pilot is a skilled professional who specializes in flying drones with precision and accuracy. They have a deep understanding of drone technology, aerodynamics, and flight principles and can apply this knowledge to operate drones in a precise and controlled manner.

Precision drone pilots work in various industries, including agriculture, surveying and mapping, cinematography, and search and rescue operations. They require strong hand-eye coordination, quick reflexes, and the ability to stay calm under pressure. Precision drone pilots must also possess excellent communication and collaboration skills, as they often work in teams with other professionals, such as surveyors, engineers, and photographers. With the increasing use of drones in various industries, precision drone pilots are in high demand, making this an exciting and lucrative career path for students interested in STEM fields and technology.



GEAR OVERVIEW



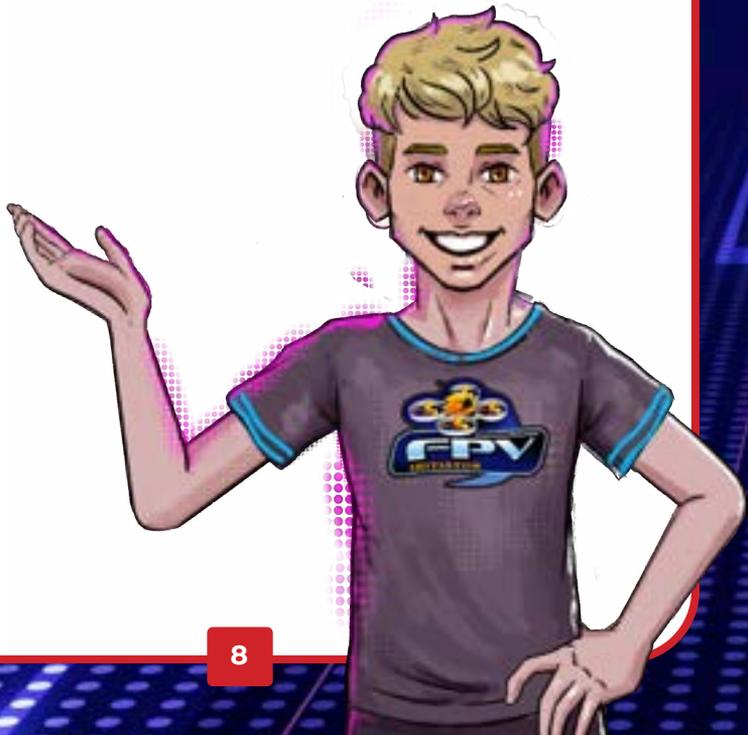
Goggles - Orqa FPV.OneRace	Controllers - Orqa FPV.Ctrl	Micro Drones - Orqa 65mm Micro Drone	ImmersionRC rapidFire 5.8Ghz Video Receiver
			

ImmersionRC Ghost UberLite Tx Module	Immersion RC SpiroNET v2 5.8GHz RHCP Diversity Bundle	1s300mAh Li-Po Batteries (packs of 4)	USB Goggle Battery Charger
			

Prop Sets (Pack of 4)	6 Port USB Flight Battery Charger	Security Trunk and Lock	4-Port USB Quick Charger
			

USB to USB Type C Cables	microSDHC 16B Card (pack of 3)	Li-Po storage bag	Type-C to Type-C for flight battery charger
			

1000 Ft. Measuring Wheel	Floor indicators (pack of 60)	Stopwatch (pack of 2)	Screw Driver
			



RACE TEAM ROLES AND RESPONSIBILITIES



Equipment Manager

The Equipment Manager maintains FPV equipment, enabling pilots to fly without technical worries. In teams, they ensure readiness and optimal function, aiding seamless flights and competition.



Pilot In Command (PIC)

The PIC's primary responsibility is the safety of the flight. This includes ensuring the drone works properly and evaluating potential issues before and during the flight.



Configurator

The FPV drone team's Configurator customizes drones for pilots, boosting performance. Continuous tuning maximizes individual potential, enhancing race competitiveness and team triumph



Spotter

The Spotter assists the PIC with other tasks, such as troubleshooting technical issues, making adjustments to the FPV goggles or equipment, and offering general support during the flight session.

BINDING: RADIO TO DRONE CONNECTION



You will need:



Orqa Micro Drone
"Whoops"



Orqa FPV
Controller



A smartphone
or tablet with the
FPV.Ctrl App



300mAh Lipo
Battery



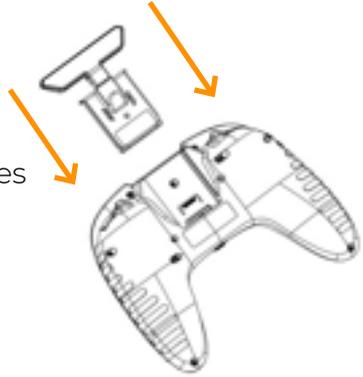
Orqa
Controller
Transmitter
Module

BINDING: RADIO TO DRONE CONNECTION



STEP 1

Connect the Orqa Controller Transmitter Modules to the Orqa FPV Controller.



STEP 2

Power on the Orqa FPV Controller.

STEP 3

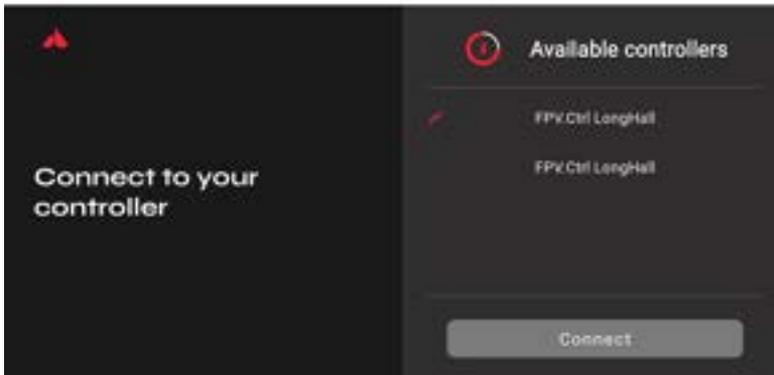
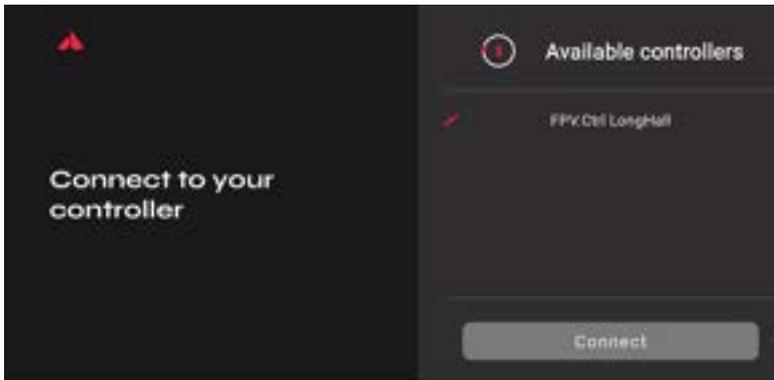
Open FPV.Ctrl App on a Tablet or Smartphone.

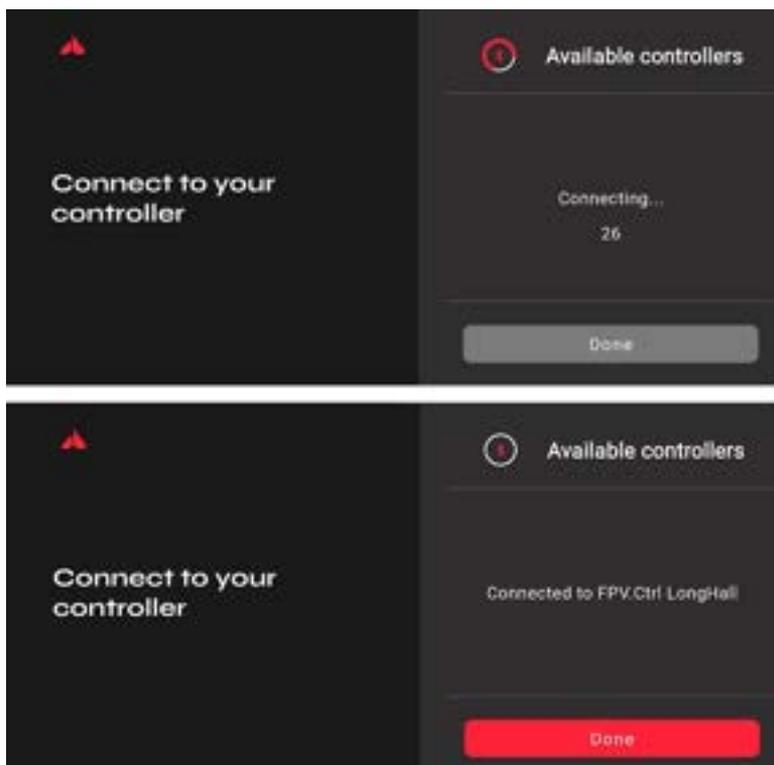


STEP 4

Connect the OrqaFPV Controller to the tablet via Bluetooth.

- To activate: Press and hold the “B” button on the Controller to turn on Bluetooth.





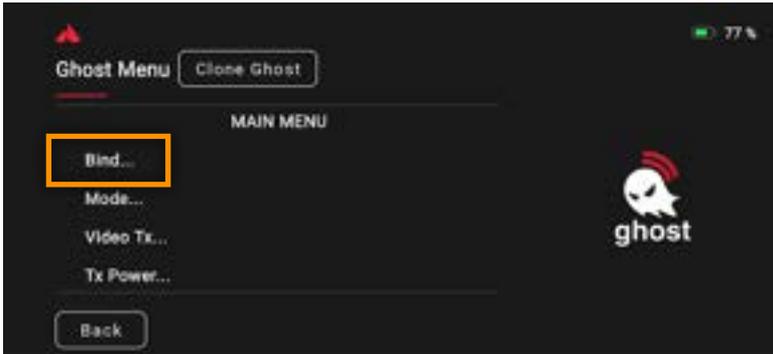
STEP
5

Open the Ghost menu settings.



**STEP
6**

Click "Bind" on the screen.



**STEP
7**

Click "Start Bind" on the screen.



**STEP
8**

Press and hold down the binding button on the inside rear of the drone using a small implement.

**STEP
9**

At the same time, while holding the binding button, power on the drone with the flight battery. (A second pair of hands is helpful here.)

**STEP
10**

Once bound, a green light on the back of the module and a green light on the drone will turn on.

Pro Tip: If lights are flashing or do not turn on, begin this process again.



