



DroneBlocks

Getting Started Guide

2022

All you need to get started using Tello drones and DroneBlocks in your classroom! This Getting Started Guide will have you taking to the skies in no time!

Lesson 03: DroneBlocks Curriculum



Welcome to lesson 03!

Now that you have seen the basics of how to code your Tello, we can look at going through the DroneBlocks gold, aka, the DroneBlocks curriculum.

We know just how valuable your time is, as an educator, which is why we have made our curriculum extremely easy to access. We have also made sure our videos and lessons are clear and easy to follow.

Over the next few pages you will see how to access the curriculum videos, gain some insightful tips on how to put a lesson plan together as well as downloading PDF files and sharing them that accompany several videos.

Objectives



At the end of this lesson you will be able to do the following:

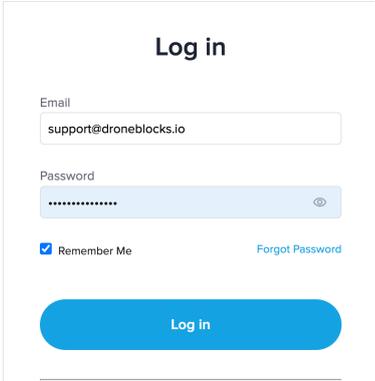
1. Access the curriculum videos files
2. Understand the curriculum structure and order
3. Create your own creative lesson plans
4. Access the ever growing DroneBlocks Community
5. Have loads of fun!



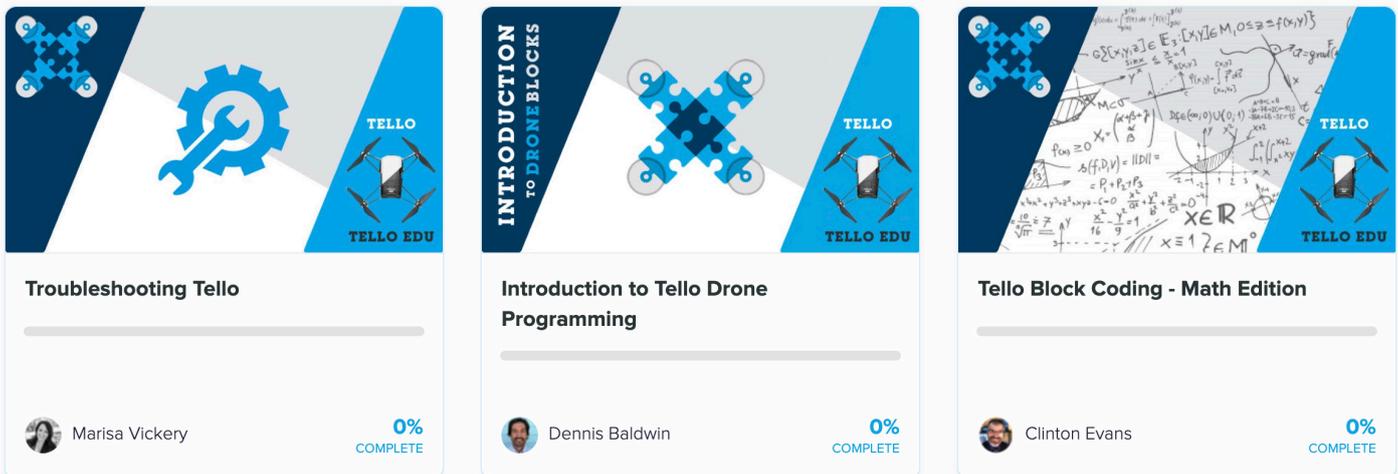
Accessing The Curriculum

Once you have sign up for the DroneBlocks curriculum, you will receive an on-boarding email. This email will tell you to email support@droneblocks.io with the email addresses of the educators that will be accessing the curriculum. By default you can have up to 10 educators accessing these resources.

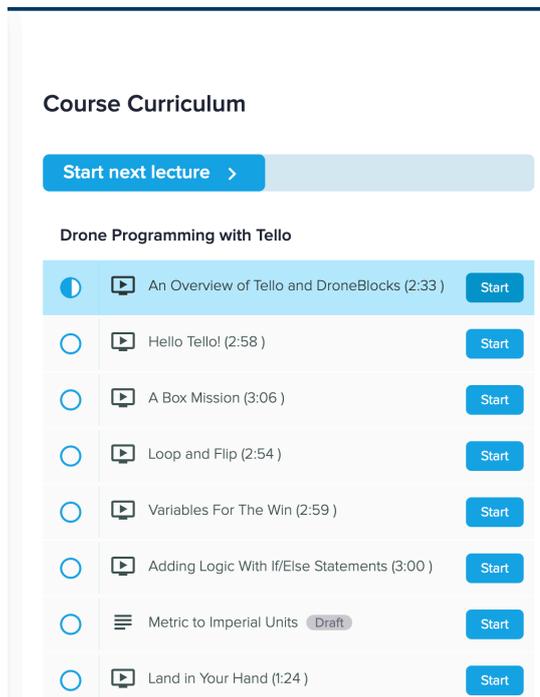
Once we have the email addresses of the educators, we will activate the accounts and they will be able to login here:
<https://learn.droneblocks.io>
Once the page has loaded click on “Login”. Type in your email address and the supplied password.



Once you have logged in, you will see all the videos and courses available to you. The courses list is constantly growing.



Clicking on the title of a course will load the course contents.



Click on blue button that says “start” to load each lesson / video. Once you have watched the video and read the accompanying material, click on Complete and Continue to mark the current lesson as “complete”. You will then be taken to the next lesson / video in the series!

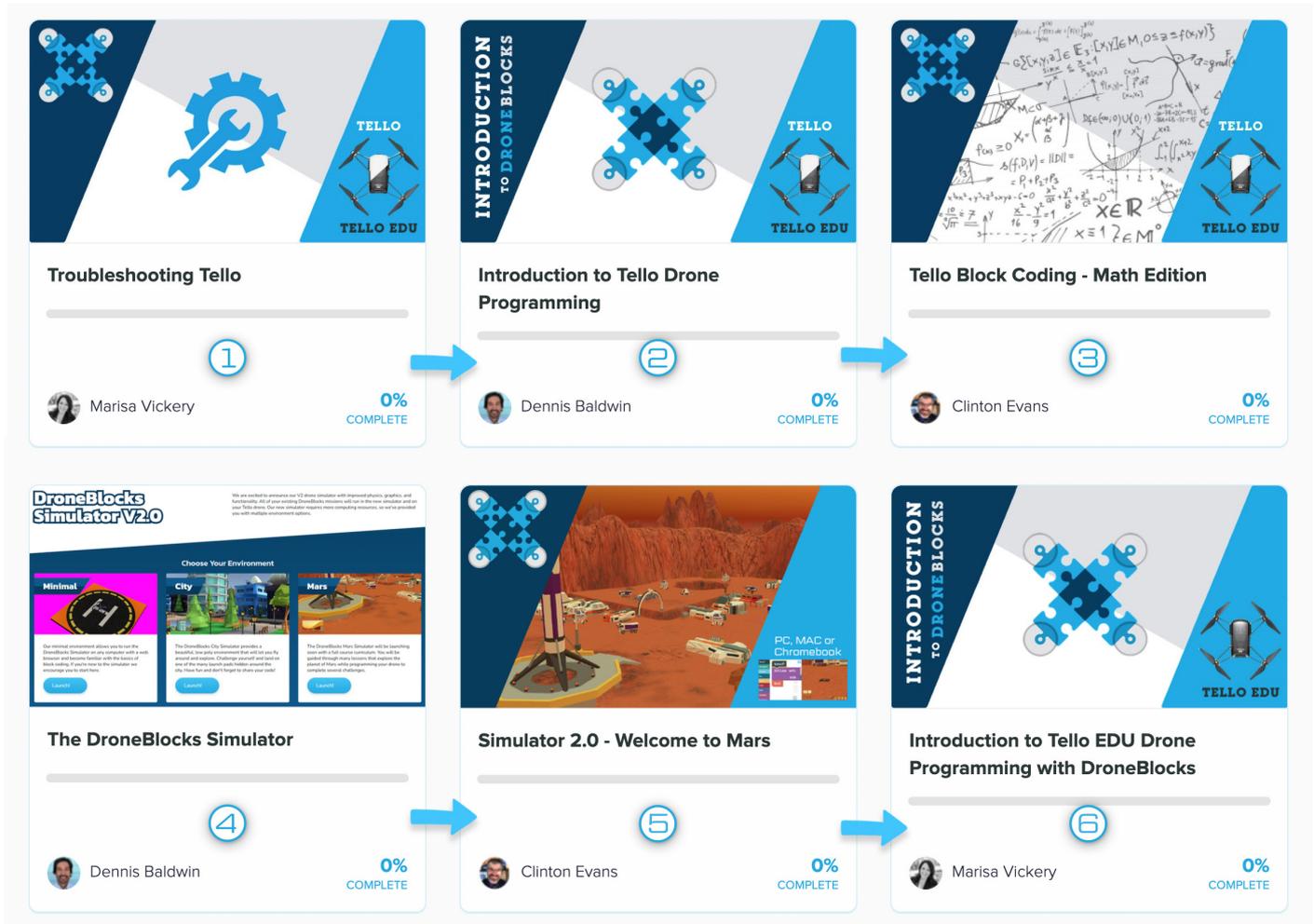


Well done DroneBlocks Coder!!



Maximizing The Curriculum

The DroneBlocks Curriculum is laid out in an easy to follow “left to right” order.



The first 3 courses are as follows:

1 - Troubleshooting Tello:
This covers troubleshooting your tello and is the starting lesson. In the future, this lesson may be replaced with the Getting Start Guide.

2 - Introduction to Tello Drone Programming:
This will give you all the basics of the tello movement using DroneBlocks. It also covers loops and functions, as well as if else logic.

3 - Tello Block Coding - Math Edition:
This is a very cool series that focuses on Math. Each lesson has a story and some missions for you and your students to complete. The lessons each focus around a math subject such as fractions or geometry.

Course Curriculum



Create Your Own Lesson

Now that you have gone over the some of the courses it's time to look at how we can create lessons for students. Once you have learned a new concept you can create challenges for your students surrounding each new topic.

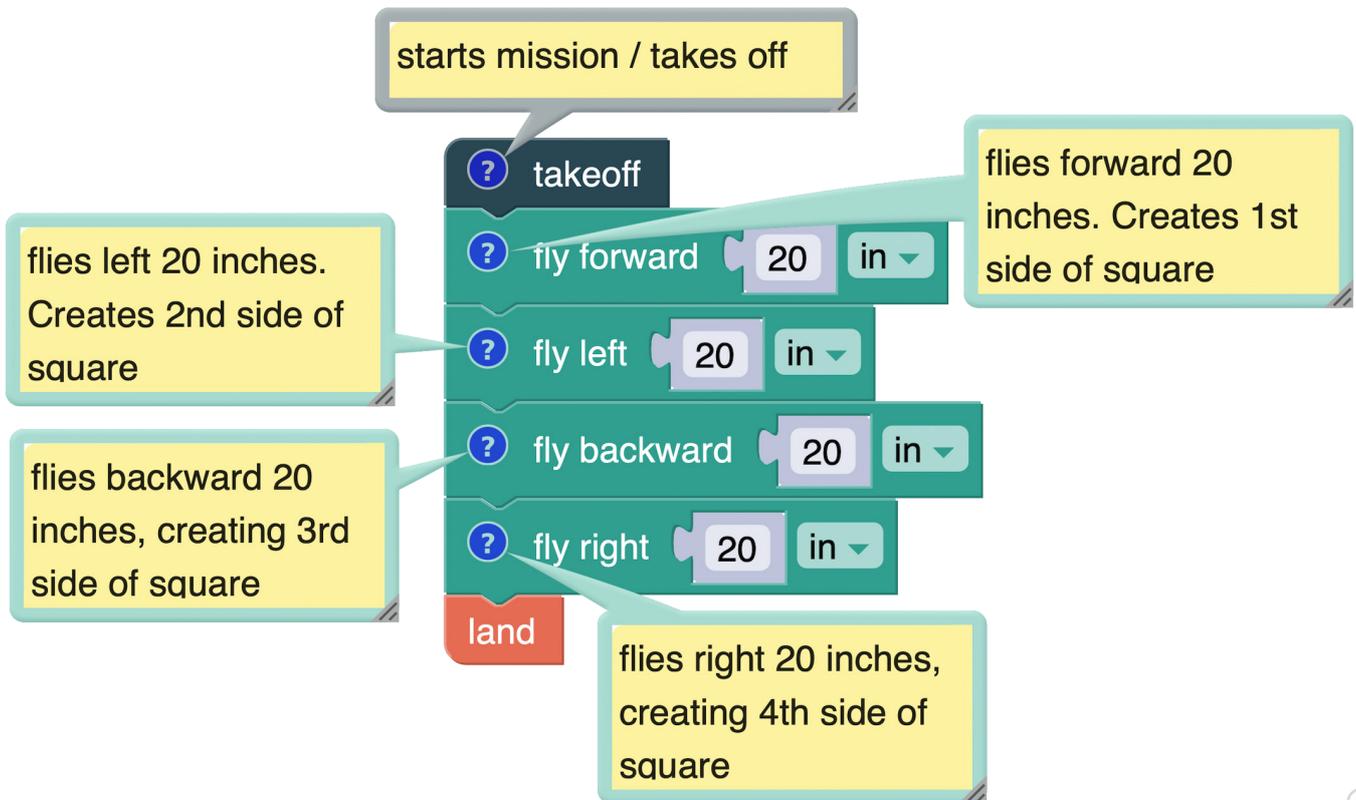
The best way to do this is to create a lesson that either has code missing or "wrong" code. Below is a square example:

```
takeoff
fly forward 20 in
fly left 20 in
fly right 20 in
fly backward 20 in
land
```

As you can see, this "square" doesn't really fly in a square. Send this code to your students with some addition questions like:

1. What shape is the flight path?
2. What shape could / should it be?
3. How would you fix this?
4. What is the length of each side?
5. How would you convert this to a rectangle?

You can also use comments to add instructions / notes on your code. This can include observations as well. You can also send your students working code and have them add comments to each block explaining what each block does:



Save your mission once you have filled in the comments. Share the link with your students via your classroom manager. Have the students solve the problem and save it in their missions with their name. Now they can re-share their link with you.



all categories ▾ **Latest** Top Categories

Topic	Replies	Views	Activity
🚀 Welcome to The DroneBlocks Community! The DroneBlocks discussion community is focused on fostering conversations around drone programming and bringing drones into the classroom. With a focus on STEM/STEAM we believe in not only teaching drone programming, bu... read more	1	528	Dec '20
Go1 Success with JS API ■ Robots	2	8	9h
Install new app on Mac OSX ■ DroneBlocks Support	3	16	1d
DroneBlocks Desktop 0.1.6 for Win and Mac with Mission Tabs and Storage ■ DroneBlocks News	13	404	1d
Go1 development with ROS2 (C++ and Python)	11	74	1d
Drones are skipping blocks in missions ■ DroneBlocks Support	13	33	4d
Student Data Privacy Agreement for Simulator Subscription (Connecticut) ■ DroneBlocks Support	1	17	4d

The DroneBlocks Community is an awesome place to have your say, ask for help and meet other awesome educators. It's a nice throw back to a simpler time, before the constant "ding, ding, ding" on group chats.

You can sign up or log in by clicking on either button on the top right hand corner of the page.

[Sign Up](#)[Log In](#)

Once you have signed in or created an account, you can click on New Topic button. This will prompt you with a new form.

You can create the title of your post. You can select the category. You can type our your message. There is a great yellow note that has great tips for creating a new topic.

Once you posted your topic, it becomes visible on the home page.

On the right hand side of the post, you can how many replies and views a topic has, as well as when there was last activity on the topic. Amazing! So jump on in, the waters great, and I can't wait to see what topics you create!

The screenshot shows the 'Create a new Topic' form. At the top, there are navigation links for 'all categories', 'Latest', 'Top', and 'Categories', along with a '+ New Topic' button. Below this is a table listing existing topics. The 'Go1 Success with JS API' topic is selected, showing 2 replies and 9h of activity. The form itself has a title input field with 'Miscellaneous' as the selected category, a rich text editor with various formatting options (bold, italic, link, code, list, image), and a 'Create Topic' button. A prominent yellow note on the right side of the form provides helpful tips for creating a new conversation, such as 'Does the title sound interesting if you read it out loud?' and 'Include commonly used words in your topic so others can find it.' Below the form, the same table of topics is visible, showing the newly created topic at the top.





Well done on making it to the end of this lesson!

Before you sign off, let's quickly see if you can answer the following questions:

What email address should you use to activate your teacher curriculum license?

```
takeoff
fly forward 20 in
fly left 20 in
fly right 20 in
fly backward 20 in
land
```

What is wrong with this “square” flight path?

How could you fix it?

What is the total length in inches that your drone will fly once you've fixed the “square”?

How many hours ago did someone comment / add to the “Go1 Success with JS API” topic?

Topic	Replies	Views	Activity
Go1 Success with JS API Robots	2	8	9h
Install new app on Mac OSX DroneBlocks Support	3	16	1d

Name two authors of a DroneBlocks course:

1. _____
2. _____

Did you have fun finishing this Getting Started Guide?
Circle one of the answers below:
(yes / yes / yes)



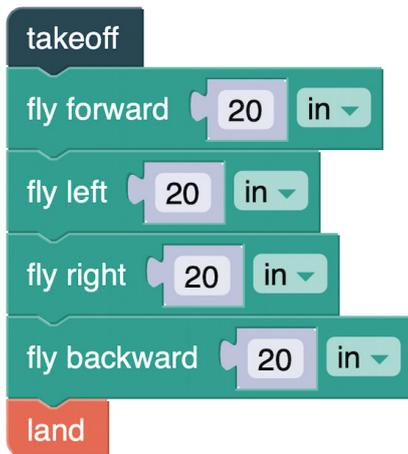


Well done on making it to the end of this lesson!

Let's have a look at some of the correct answers below:

What email address should you use to activate your teacher curriculum license?

support@droneblocks.io



What is wrong with this “square” flight path?

It flies left then right rather than left, backward then right.

How could you fix it?

Drag “fly right 20in” block underneath “fly backward 20 in” block

What is the total length in inches that your drone will fly once you've fixed the “square”?

60 inches

How many hours ago did someone comment / add to the “Go1 Success with JS API” topic?

9 hours ago

Topic	Replies	Views	Activity
Go1 Success with JS API Robots	2	8	9h
Install new app on Mac OSX DroneBlocks Support	3	16	1d

Name two authors of a DroneBlocks course:

1. Dennis Baldwin
2. Marisa Vickery

Did you have fun finishing this Getting Started Guide?

Circle one of the answers below:

(yes / yes / yes)

:D

