

# SPHERO/SPRK+

Drive, Draw, Program!



Sphero is a robotic waterproof, one piece sphere that can be driven, used to create path based programs and can be programmed using easy block style programming, Apple Swift or JavaScript.

Its sensors allow it to be used in high school physics experiments as data can be downloaded and analysed.

# WHAT IS A SPHERO OR SPRK?



# GETTING STARTED

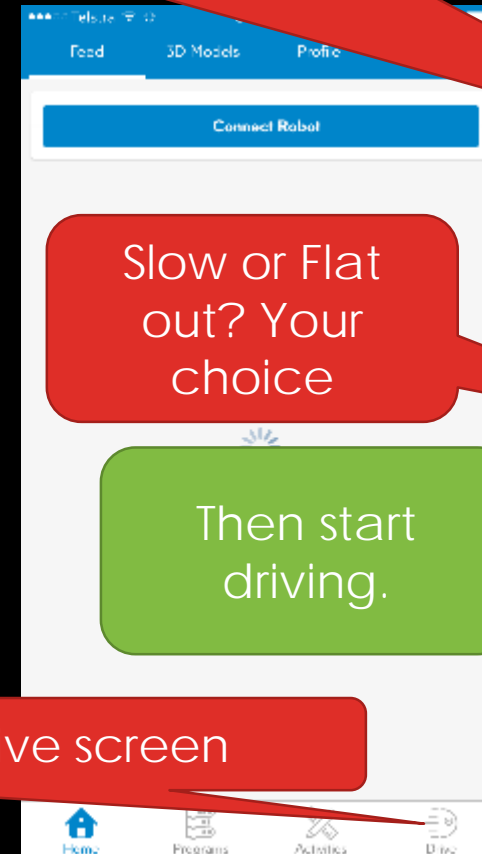
- Download Sphero Edu from the itunes app store – also works on other devices but not windows.
- You need an iphone or ipad with one of the little connectors, not the older one inch connectors (It needs a special kind of Bluetooth)
- Once installed, grab your charged sphero sprk+ and start the Sphero Edu app
- Holding the sphero close to your device, the app should say “connecting” and your sphero should light up.
- There are some “how to screens” when you first start the app, but nobody reads them... (surprise me 😊)
- It will ask you to log in or in fine print “continue as guest” that is the fastest way to get to the driving screen...

# START WITH DRIVING

More than one sphero? Change colours

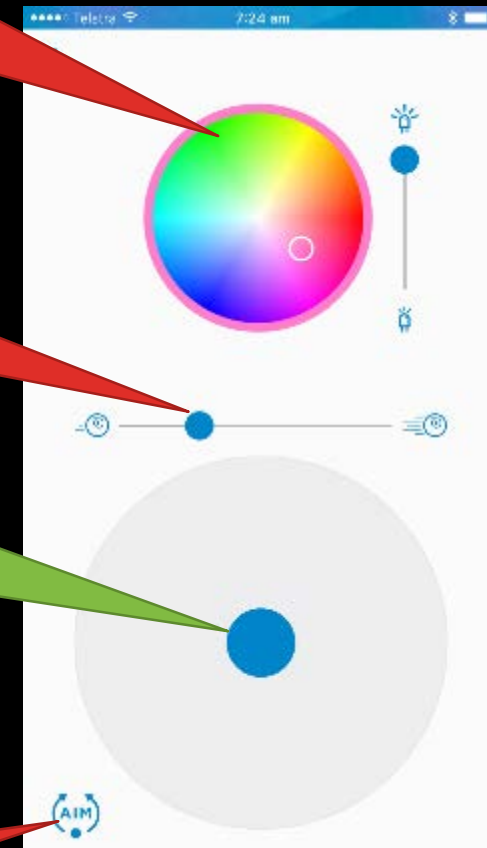


This button gets you to the drive screen



Slow or Flat out? Your choice

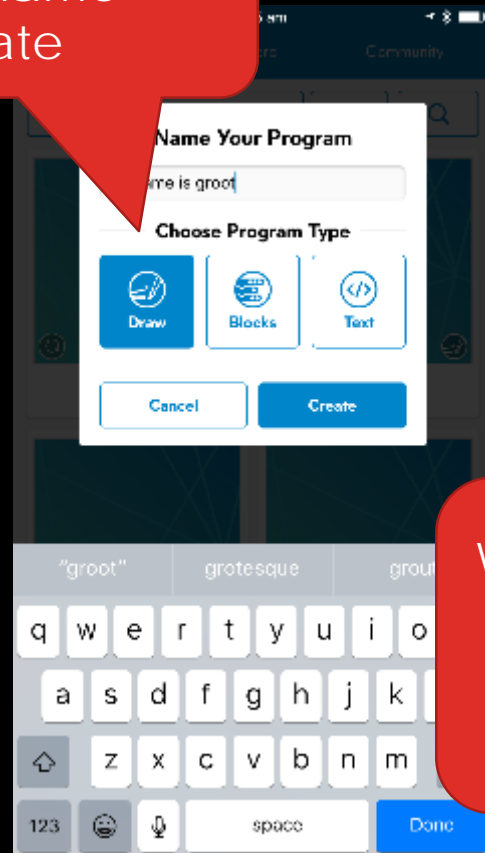
Then start driving.



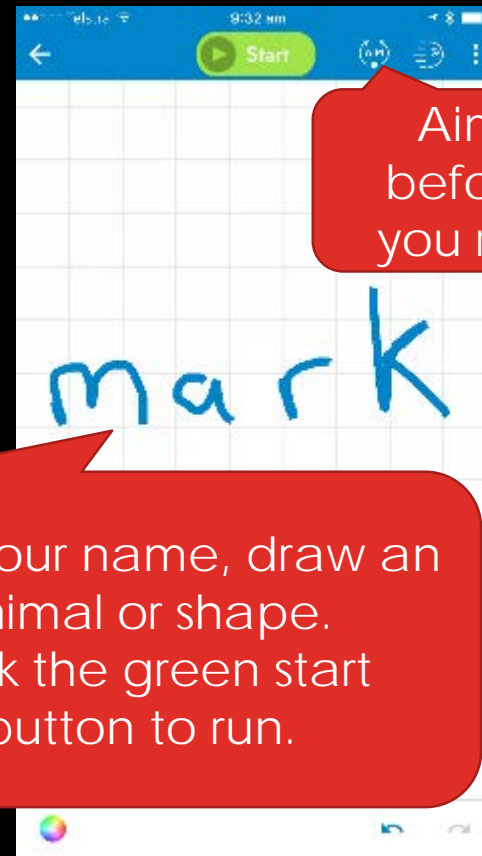
But don't forget to aim your robot!!

# DRAW PROGRAMMING

- Choose Draw
- Give it a name
- Click Create

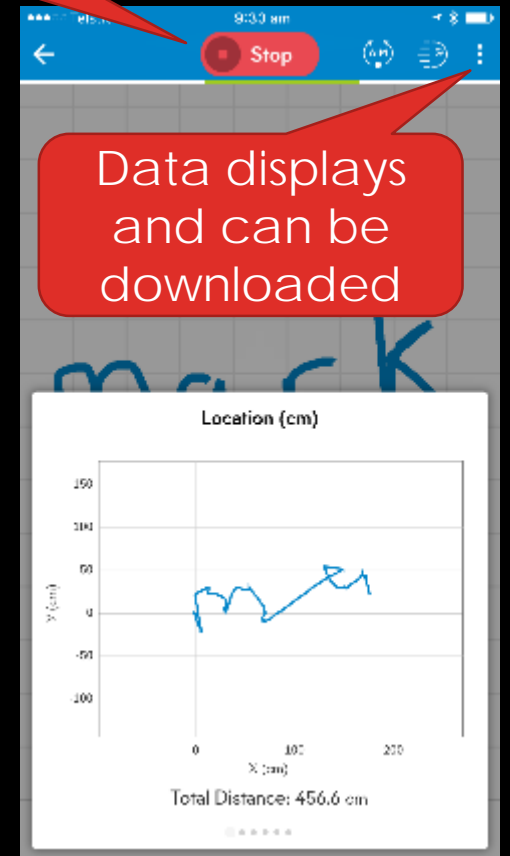


Write your name, draw an animal or shape. Click the green start button to run.



Stop program

Aim before you run

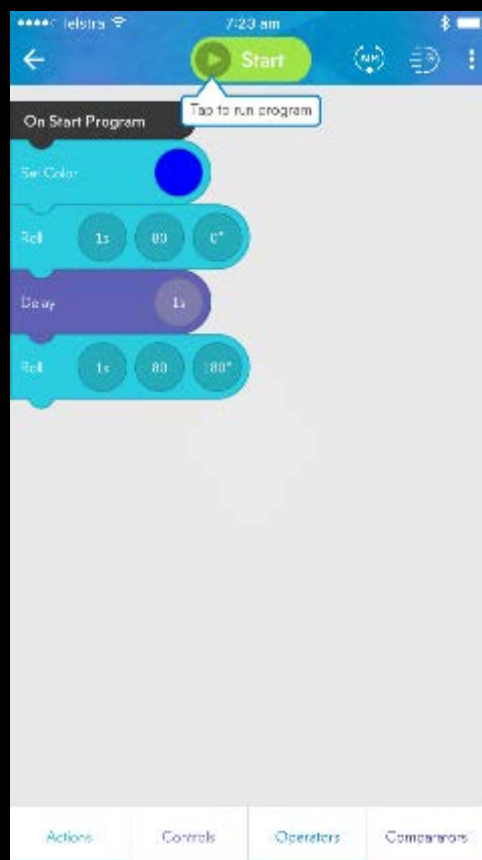
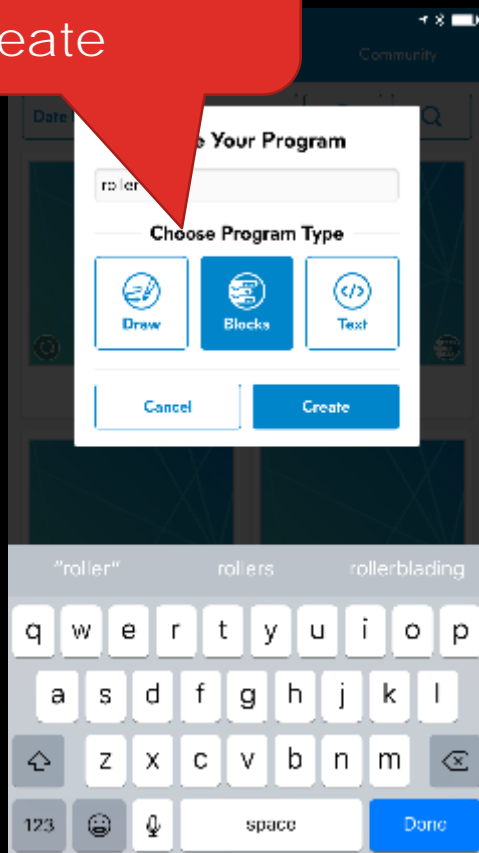


Data displays and can be downloaded

# REAL PROGRAMMING

- Choose Blocks
- Give it a name
- Click Create

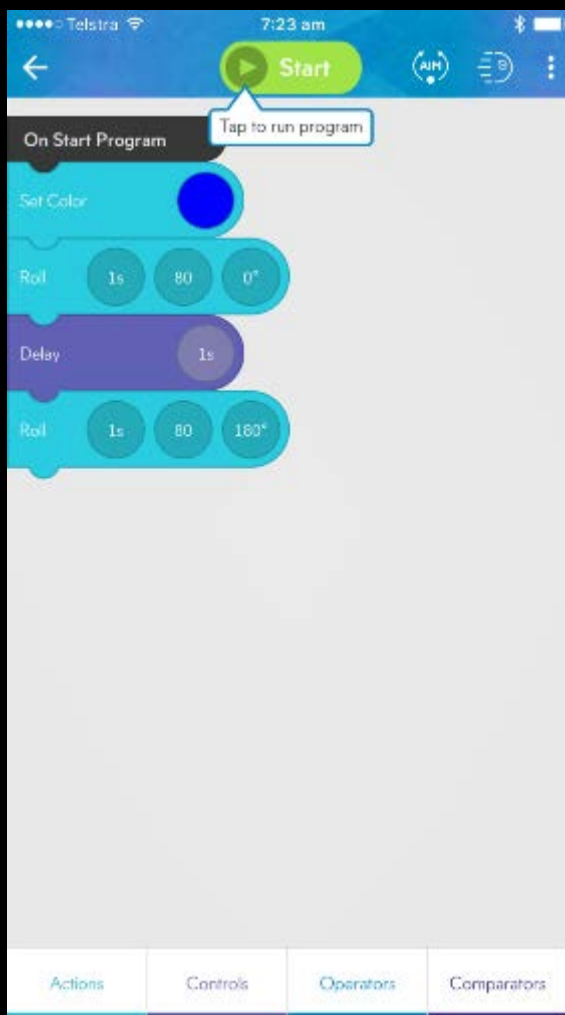
Click the Plus



SO...



+



= STEM

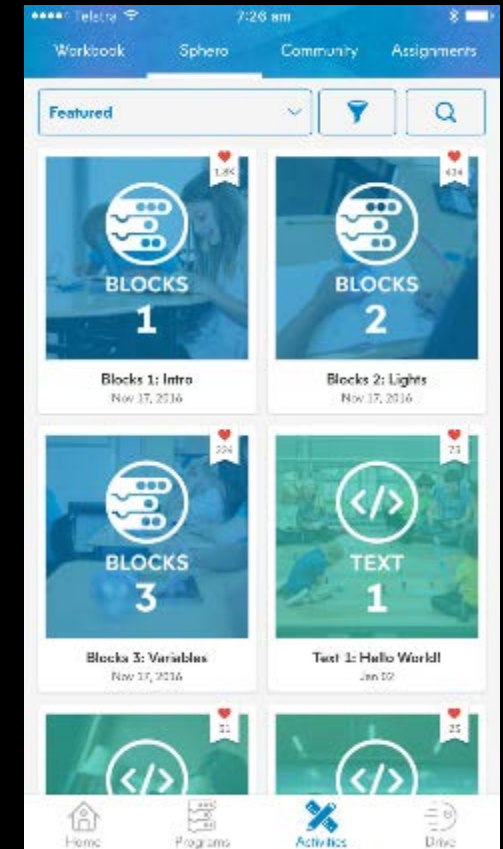
# A FREE ACCOUNT GIVES YOU MORE

I recommend with a little time on your hands, set up a free account.

That allows you to upload and share your programs...

Look at and download other programs...

Assign activities to students and lots more...





# MORE INFORMATION?

[Steam.doe@nt.gov.au](mailto:Steam.doe@nt.gov.au)

Introduction Video

<https://video.ntschoools.net/#/videos/61963ca7-e57b-46db-884c-1c54568a8a13>

Basic programming of a square

<https://video.ntschoools.net/#/videos/b15cd651-0a69-4841-bc75-7de878a8f57a>