**Hints**

**Getting Started (New Users)**

**Aiming Your Robot**



Duration
(in seconds)

-255 to 255



* Download and open Sphero Edu.
* Agree to the Terms of Use and Privacy Policy.
* Select the Home User option.
* Scroll past login information and select Quick Start

Let’s Code.

* Select the Programs Tab  on the home screen.
* Select the + button, and title your program.

Forward
0o



90o
Right

270o
Left

AIM your robot before you Run your program!

**Coding Layout**

180o Backward

**Coding blocks**
Color coded. Swipe over for more!

**Canvas**
Where programs are coded.

**Start**
Select to run your program.

**On start program**
Appears in every program. Attach blocks to it to code.

**Trays**Group coding blocks; swipe over for more!

* Squares have 90o interior angles.
* Set your speed to a mid-range (above 60).
* Set the same speed and duration in all roll blocks.
* Include short durations (below 2 seconds).
* Add delay commands between roll commands so movements don’t bleed into each other.
* Don’t move your device when running a program.

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**Placing Blocks**

Drag blocks to the canvas from their tabs. Add them to your program by attaching them to the “On start program” block (as shown).

* Make sure Bluetooth is enabled on your device.
* Press the Start button on top of the coding window.
* Select Sphero BOLT from the list of options.
* Connect your robot with its identifying number (printed on the internal components under the Sphero logo as well as on the LED screen on start-up).
* If needed, press the AIM button to orient your robot.

**Connect Your Robot**

**90o**

**75**

**75**

**?**

**?**

**0o**

**?o**

**?o**

**Use These Blocks**

**Sphero Robotics: Square**



Solved it? Make it your own!

Lengthen the shape.

Add sounds.

Add lights.

This block exits the program.

In Movement Tab

This block moves the robot in a specified direction, speed, and time.

In Controls Tab

This block causes a delay for the number of seconds entered.

* How would you describe a square to someone?
* What directions do they need to draw a square?
* How do your directions convert into block codes?

**Pre-Planning**

**Explore**: Simple coding to move a robot in a square

**Time:** 10-15 minutes

**Required Materials**

* This flier
* A Sphero BOLT robot
* Bluetooth enabled computer, phone, or tablet
* Sphero Edu: Free for Win/Mac/iOS/Android users at https://edu.sphero.com/d

**Difficulty: Beginner**

See Partial Solution