sphero
Four Different Robots. All Kinds of Awesome.

Sphero coding robots make it easy to integrate STEM and computer science into any classroom, makerspace, robotics club, and more! Check out our four options to inspire students of all ages and stages on their coding journey.

Sphero indi

Sphero Mini

Sphero BOLT

Sphero RVR+

ABOUT THE BOT

Sphero indi: Designed to introduce young learners to the fundamentals of computational thinking, STEAM, and computer science principles while encouraging open-ended, imaginative play-based learning. Screenless and app-enabled coding options!

Sphero Mini: Small enough for tabletop learning but sturdy enough to roll around on the floor, Mini is a beginner-friendly bot that teaches the basics of coding and computer science and is easy to incorporate into core subjects.

Sphero BOLT: Our most versatile robot, BOLT is beloved by educators for its approachability and endless possibilities for creative expression. Not only is BOLT durable enough for classroom floors, it can also be used in the water. Level up learning with Sphero's standards-aligned Computer Science Foundations curriculum designed for BOLT.

Sphero RVR+: RVR+ is our revolutionary take on the programmable robot. It's drivable right out of the box, packed with a diverse suite of sensors, and built for customization. RVR+ is a mobile platform for intermediate to advanced makers, educators, and learners.

WAYS TO PROGRAM

Sphero indi:
Screenless Coding Concepts: Students discover how to program indi through color.

Sphero Edu Jr. App: Kids learn block coding concepts by changing how indi reacts to different color cards.

Compatibility: *iOS, Android, Kindle*

Sphero Mini:
Sphero Play App: Kids use Block Drive for an intro to programming with colorful blocks.

Compatibility: *iOS, Android, Kindle*

Sphero Edu App: Code using Draw, Blocks, or JavaScript. Access 1000s of activities and manage your classroom.

Compatibility: *Chrome, Mac, PC, iOS, Android, Kindle*

Sphero BOLT:
Sphero Play App: Kids use Block Drive for an intro to programming with colorful blocks.

Compatibility: *iOS, Android, Kindle*

Sphero Edu App: Code using Draw, Blocks, or JavaScript. Access 1000s of activities and manage your classroom.

Compatibility: *Chrome, Mac, PC, iOS, Android, Kindle*

Sphero RVR+:
Sphero Edu App: Code using Draw, Blocks, or JavaScript. Access 1000s of activities and manage your classroom.

Compatibility: *Chrome, Mac, PC, iOS, Android, Kindle*

Sphero SDK: Program RVR+ and 3rd-party hardware with our extensive Software Development Kit (SDK).

Compatibility: *Web browser*

CURRICULUM & ACTIVITIES

Sphero indi:
Challenge Cards: 15 unique challenges included with the Student Kit and Class Pack.

Educator Guidebook: Standards-aligned lesson plans included with Class Pack.

Sphero Mini:
Computer Science Foundations (Sold separately)
Learner Progression Activity Chart (Free download)
16 sets of 15 Sphero Edu App Coding Activity Cards
15 Sphero Play App STEAM Activities (Free download)
Free Sphero Edu Activities

Sphero BOLT:
Computer Science Foundations (Sold separately)
Learner Progression Activity Chart (Free download)
Free Sphero Edu Activities

Sphero RVR+:
Computer Science Foundations (Course 2 & 3. Sold separately)
Sphero SDK (Free online resource)
Learner Progression Activity Chart (Free download)
Free Sphero Edu Activities

PROGRAMMABLE FEATURES

Sphero indi:
Motor (control speed and direction)
Color sensor
LED lights
Speaker

Sphero Mini:
Motor (control speed and direction)
Programmable LED light

Sphero BOLT:
Motor (control speed and direction)
8x8 LED light matrix
Infrared sensors
Sound (from the Sphero Edu app)

Sphero RVR+:
Motor (control speed and direction)
10 individually addressable RGB LEDs
Infrared sensors
Sound (from the Sphero Edu app)
RVR+ is also compatible with 3rd-party, programmable hardware: Raspberry Pi, and micro:bit (sold separately)

HARDWARE FEATURES

Sphero indi:
Onboard optical color sensor
Onboard speaker

Sphero Mini:
Gyroscope
Accelerometer
Interchangeable shells for customizing Mini
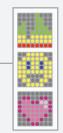
Sphero BOLT:
Motor encoders
Gyroscope
Accelerometer
8x8 matrix
Infrared
Compass
Light sensor

Sphero RVR+:
Motor encoders
Full 9-axis IMU: includes accelerometer, gyroscope, magnetometer, IR sensors
RGB color sensor w/ normalizing LED and focus lens
10 RGB LEDs
High-resolution 20-pole magnetic encoders
All-terrain treads
Customizable expansion plate for connecting third-party hardware

ROBOT SIZE

Sphero indi:
Length: 76mm
Width: 70mm
Height: 41mm
Weight: 136g

Sphero Mini:
Height: 42mm
Width: 42mm
Weight: 46g
About as big as a ping pong ball

Sphero BOLT:
Height: 73mm
Width: 73mm
Weight: 200g
About as big as a baseball

Sphero RVR+:
Length: 184mm
Width: 216mm
Height: 114mm (with roll cage) 70mm (without roll cage)
Weight: 1030g (with battery) 790g (without battery)

CHARGING

Sphero indi:
Single: Micro-USB charging
Charging Case: Inductive charging

Sphero Mini: Micro-USB charging

Sphero BOLT: Inductive charging

Sphero RVR+: USB-C charging removable battery

sphero®