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- › [Sphero](#) /
- › [Sphero RVR+ Programmable Robot Instruction Manual](#)

Sphero RVR+

Sphero RVR+ Programmable Robot Instruction Manual

Model: RVR+

1. INTRODUCTION TO SPHERO RVR+

The Sphero RVR+ is an advanced programmable robot designed for learning and exploration in coding, robotics, and artificial intelligence. It is fully assembled and ready for immediate use, offering a versatile platform for both beginners and advanced programmers. RVR+ features a robust design, a suite of programmable sensors, and expandability options for third-party hardware integration.



Figure 1.1: The Sphero RVR+ robot, ready for programming and exploration.

2. SETUP AND FIRST USE

2.1 Unboxing and Initial Inspection

Upon opening the package, ensure all components are present. The Sphero RVR+ comes fully assembled. The package typically includes the RVR+ robot, a removable cover plate, a rechargeable battery, a micro USB charger, a battery key, and color cards.



Figure 2.1: Included components of the Sphero RVR+ package.

2.2 Battery Installation and Charging

1. Locate the battery compartment on the RVR+ robot.
2. Insert the rechargeable battery into the compartment. Ensure it clicks securely into place.
3. Connect the micro USB charger to the battery port.
4. Plug the charger into a power source. The battery indicator light will show charging status.
5. Allow the battery to fully charge before first use. A full charge ensures optimal performance.

PUBLIC SDK



Figure 2.2: Inserting the rechargeable battery into the RVR+.

2.3 App Connection

The Sphero RVR+ is controlled and programmed via the Sphero Edu app. This app is available on iOS, Android, Windows, macOS, ChromeOS, and web browsers. No account or installation is needed for web browser access.

1. Download and install the Sphero Edu app on your device, or navigate to the web-based version.
2. Ensure your RVR+ is powered on and within Bluetooth range of your device.
3. Open the Sphero Edu app and follow the on-screen prompts to connect to your RVR+.

3. OPERATING YOUR RVR+

3.1 Driving and Basic Control

Once connected to the Sphero Edu app, you can use the drive interface to manually control your RVR+. This allows for immediate interaction and familiarization with the robot's movement capabilities.

ALL

TERRAIN



Figure 3.1: RVR+ navigating varied terrain, highlighting its robust design.

3.2 Programming Fundamentals

The Sphero Edu app supports various programming levels:

- **Block Coding:** Ideal for beginners, allowing users to drag and drop visual blocks to create programs.
- **JavaScript and Python:** For more advanced users, enabling text-based coding.

The Sphero AI Assistant, 'Explain My Program', can assist in understanding code logic.



FULLY PROGRAMMABLE

Figure 3.2: Programming the RVR+ using a tablet interface.

3.3 Utilizing Sensors

RVR+ is equipped with multiple sensors to gather real-time data and interact with its environment:

- **Color Sensor:** Detects and reacts to different colors.
- **Light Sensor:** Measures ambient light levels.
- **Infrared Sensor:** For communication and obstacle detection.
- **Gyroscope and Accelerometer:** Provides data on orientation and movement.

These sensors enable RVR+ to react to its surroundings, bridging coding with systems thinking.



ADVANCED SENSORS

INFRARED COMMUNICATION • GYROSCOPE
ENHANCED COLOR RECOGNITION • & MORE

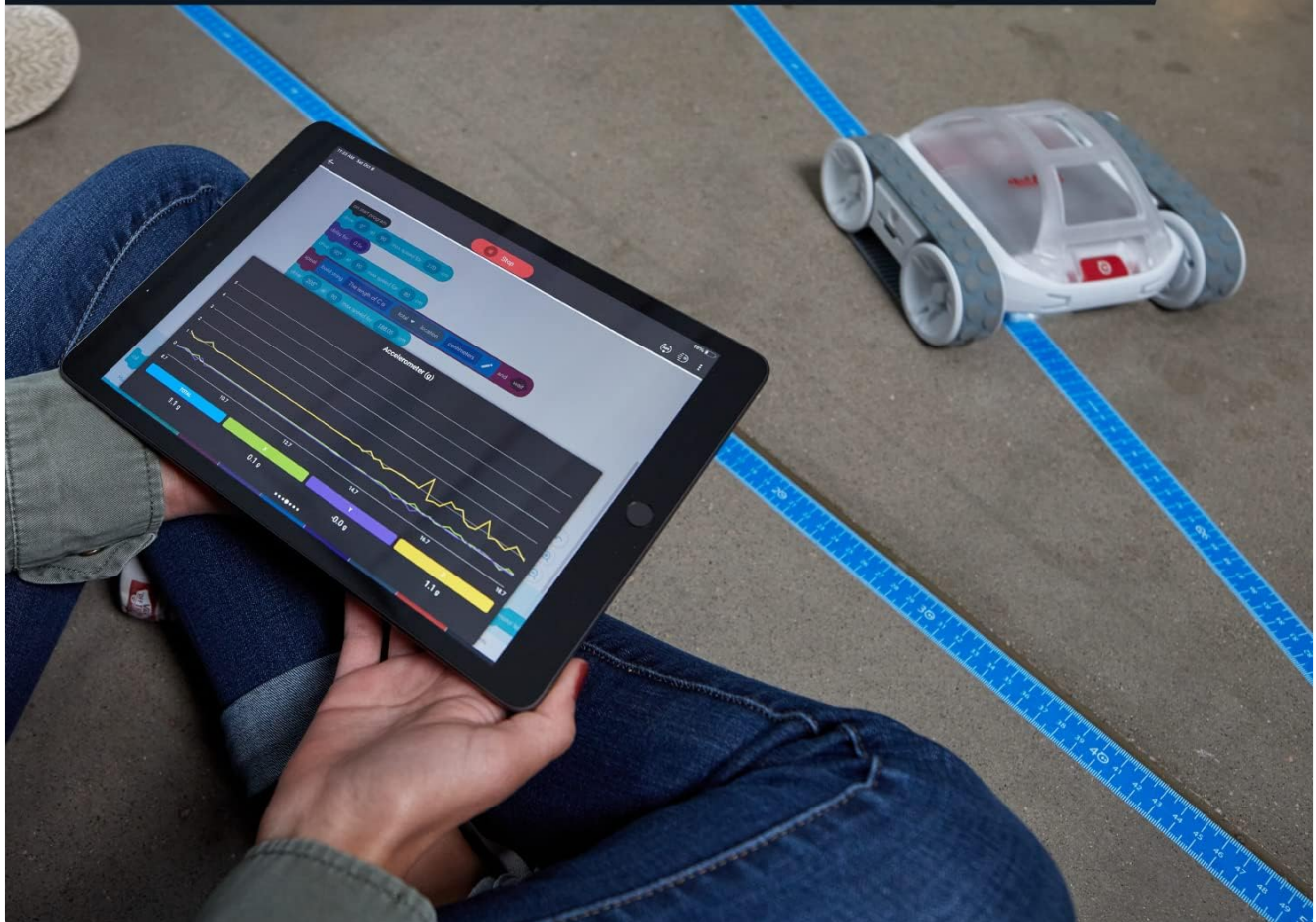


Figure 3.3: Visualizing RVR+ sensor data on a tablet.

3.4 Advanced Expansion

RVR+ supports integration with third-party hardware through its Public SDK. This allows for advanced projects using platforms like Raspberry Pi and micro:bit, expanding its capabilities beyond its core features.



INCREASED PAYLOAD & TORQUE

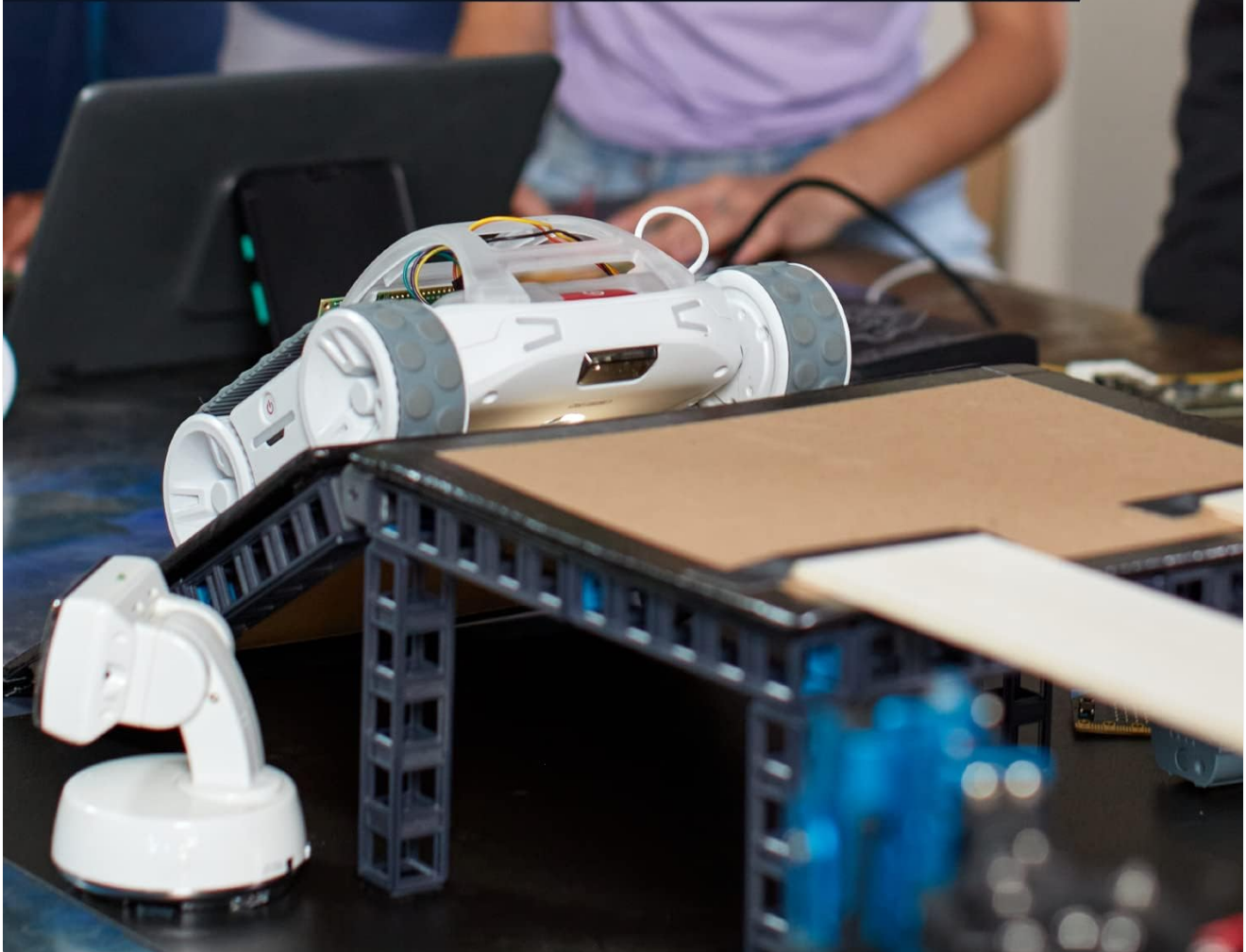


Figure 3.4: RVR+ integrated with external hardware for advanced projects.

4. MAINTENANCE

4.1 Battery Care

- Always use the provided charger for the rechargeable battery.
- Avoid fully discharging the battery frequently to prolong its lifespan.
- Store the RVR+ and its battery in a cool, dry place when not in use.

4.2 Cleaning

To clean your RVR+, use a soft, dry cloth. Avoid using harsh chemicals or abrasive materials, as these can damage the robot's surface or internal components. Ensure no moisture enters the electronic components.

5. TROUBLESHOOTING

If you encounter issues with your Sphero RVR+, consider the following common troubleshooting steps:

- **Connectivity Issues:** Ensure RVR+ is powered on and fully charged. Verify Bluetooth is enabled on your device and that the Sphero Edu app has necessary permissions. Try restarting both the RVR+ and your device.
- **Charging Problems:** Check that the charging cable is securely connected to both the battery and the power source. Ensure the power source is active.
- **Unexpected Behavior:** If RVR+ is not responding as expected to commands or programs, check your code for errors. Ensure the robot's sensors are clean and unobstructed. A factory reset (refer to Sphero support resources for instructions) may resolve persistent software issues.

For more detailed troubleshooting guides, please visit the official Sphero support website.

6. SPECIFICATIONS

Feature	Detail
Product Dimensions	1.97 x 1.57 x 874.8 inches
Item Weight	3.5 pounds
Item Model Number	940-0601
Manufacturer Recommended Age	8 months - 8 years
Batteries	1 A battery required (rechargeable, included)
Manufacturer	Sphero

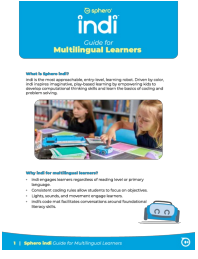
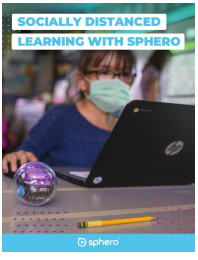
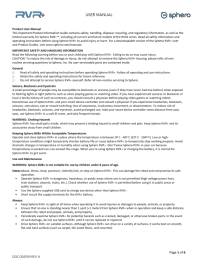
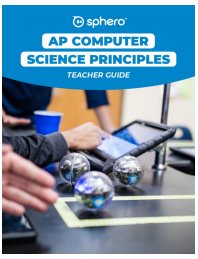
7. WARRANTY INFORMATION

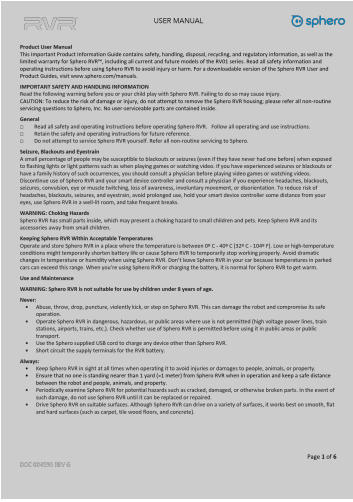
For detailed warranty information regarding your Sphero RVR+, please refer to the documentation included with your product or visit the official Sphero website. Warranty terms and conditions may vary by region and purchase date.

8. SUPPORT AND RESOURCES

Sphero provides extensive resources to help you get the most out of your RVR+:

- **Sphero Edu App:** The primary interface for controlling and programming RVR+. Available on multiple platforms.
- **Sphero Central:** Explore lessons, activities, and educational resources for RVR+ and other Sphero products. Visit www.sphero.com for more information.
- **Online Support:** Access FAQs, troubleshooting guides, and contact customer support through the official Sphero website.

	Sphero indi: Guide for Multilingual Learners Discover Sphero indi, an approachable, entry-level learning robot designed to empower children. This guide explores how indi fosters computational thinking, coding basics, and problem-solving skills, especially for multilingual learners, through engaging activities like color tiles and challenge cards.
	Sphero BOLT+ Quick Start Guide: Programming and Usage A comprehensive guide to getting started with the Sphero BOLT+ programmable robot, covering charging, app setup, connecting, programming basics, and starter program examples.
	Socially Distanced Learning with Sphero and littleBits A guide to using Sphero and littleBits robots for education in a socially distanced environment, including classroom management tips, cleaning instructions, activity ideas for school and home, and information on check-out programs.
	Sphero RVR+ User Manual: Safety, Operation, and Warranty Information Comprehensive user manual for the Sphero RVR+ robot, covering safety guidelines, operating instructions, charging, maintenance, disposal, warranty, and technical specifications. Learn how to use and care for your Sphero RVR+.
	Sphero AP Computer Science Principles Teacher Guide A teacher's guide for implementing Sphero robots in AP Computer Science Principles courses, covering creative development, data, algorithms, programming, and performance tasks.
	Sphero 2.0 Návod k Použití a Nastavení Robot World Tento návod poskytuje pokyny pro nastavení, připojení a používání robotické hračky Sphero 2.0 od Orbotix Inc., včetně nabíjení, párování přes Bluetooth a základního ovládání. Obsahuje bezpečnostní varování a informace o výrobci.



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RV01 RVR User Manual DOC 004599 en REV H Sara Sampson HelpDocs USER MANUAL Page 1 of 6
G Product This Important Information Guide contains safety handling disposal recycling and regulatory information as well the limited warranty for Sphero RVR™ including all current future models series Read
rvr user manual files helpdocs io el0mxc937 other 1603761103588

USER MANUAL Product User Manual This Important Product Information Guide contains safety, handling, ... dels of the RV01 series. Read all safety information and operating instructions before using Sphero **RVR** to avoid injury or harm. For a downloadable version of the Sphero **RVR** User and Product Guides, v...
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RVR Looking to build a camp that combines engineering design, computer science, and fun Then **RVR** is the perfect tool for you. **RVR** is Sphero s revolutionary take on the programmable robot and is optimized for middle and...
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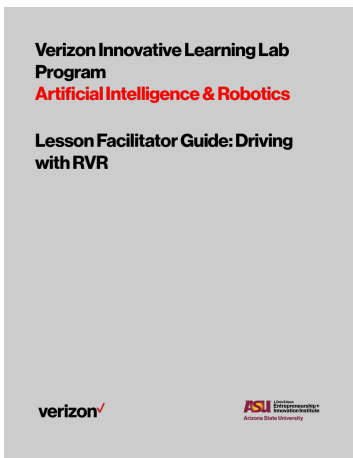
Index

1. Introduction	2
2. Problem Statement	2
3. Solution Overview	2
4. Initial Design Overview	3
• First Design Attempt	3
• Issues with First Design	4
5. Camera Protection Challenges	4
6. Assembly Process	5
7. Space Constraints in the First Design	5
8. New Design Approach	6
9. Designing the Front Camera Mechanism	7
10. Assembly Process for New Design	8
11. Rotation Issue and Solution	8
12. Detailing and Mechanism Design	9
13. Exploded View of Components	9
14. Arduino Circuit with Servo Motor	10
15. 3D-Printed Waste Parts	11
16. Conclusion and Future Modifications	11
17. Acknowledgments	11

[\[pdf\]](#)

Advanced Mechanism for Sphero RVR Robot 18 Steps with Pictures Instructables Rhythm v1 content instructables F04 MDFL M7LXF4RW F04MDFLM7LXF4RW ||| Index 1. Introduction 2 2. Problem Statement 11 17. Acknowledgments 11 1 Page Advanced Mechanism for Sphero **RVR** Robot This car is designed to help students learn coding through hands-on experience with techno... lang:en **score:44** filesize: 1.3 M page_count: 11 document date: 2025-02-27

1 | Page



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Lesson Facilitator Guide Driving with RVR Kelly McNeil 13 feb 2024 — This lesson should take 2 class periods or about 100 minutes to complete introduces students autonomous programming the Sphero teacher facilitator guide lesson2 driving rvr verizon learning static content import extracted course artificialintelligenceandrobotics unit2 business robotics andtheopenocean chapter2 roboticswiththervr lesson2of4 drivingwithrvr ||| Verizon Innovative Learning Lab Program Artificial Intelligence Robotics Lesson Facilitator Guide: Driving with **RVR** Overview This lesson should take 2 class periods, or about 100 minutes to complete. This lesson introduces students to autonomous programming with the Sphero RVR. Students will lea... lang:en **score:41** filesize: 218.49 K page_count: 5 document date: 2021-12-22



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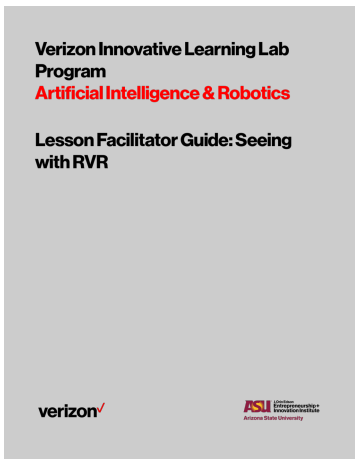


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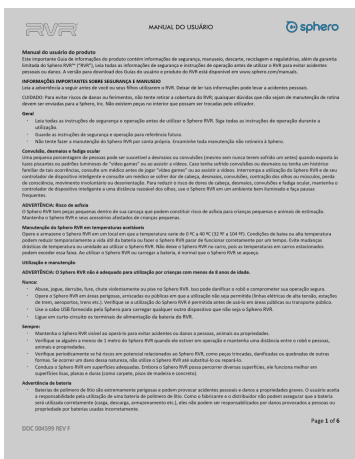


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MANUAL DO USURIO Manual do usurio do produto Este importante Guia de informaes do produto contm informaes de segurana, manuseio, descarte, reciclagem e regulatrias, alm da garantia limitada do Sphero RVRTM **RVR** , Leia todas as informaes de segurana e instrues de operao antes de utilizar o **RVR** par... lang:pt **score:40** filesize: 202.9 K page_count: 6 document date: 2019-10-17



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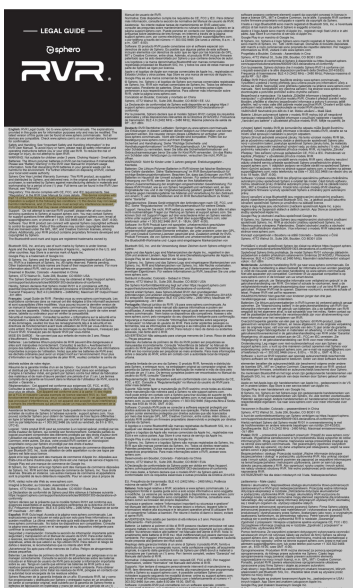


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Sphero RVR+ Multi-Pack: Programmable Robot Kit for Education

Discover the Sphero RVR+ Multi-Pack, a comprehensive kit featuring 6 programmable RVR+ robots and an Educator Guide. Designed for 6th-12th grade students, it offers extensive features for coding, robotics, and STEM education, compatible with the Sphero Edu app and various third-party hardware.

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Sphero After School Guide

Plan a fun and enriching after school program with Sphero!

Wondering how to integrate STEM learning into your after school program? Sphero robots and littleBits kits are the perfect hands-on solution for extending the learning day and getting students started with computer science and engineering principles. Sphero-robots and kits are ideal for the full spectrum of students, ranging from beginners who haven't had an opportunity to code yet to those with block or even text-based coding experience.

What's in this Guide?

The Sphero After School Guide is designed to help you get started integrating Sphero robots and littleBits into your after school program. It is organized by Sphero robot/kit. Reference each of the following sections according to the Sphero robot/kit(s) that you have access to and the needs of your students.

- Facilitation options
- Indi
- BOLT
- littlebits
- RVR+
- Support

You might start with just one Sphero robot kit and then add more as your students grow their STEM skills and interest.

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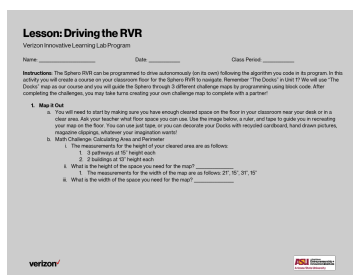
Lesson Driving the RVR Edward Storck 1 giorno fa — Instructions The Sphero can be programmed to drive autonomously on its own following algorithm you code in program In this student lesson2 driving rvr worksheet verizon learning static content import extracted course artificialintelligenceandrobotics unit2 business robotics andtheopenocean chapter2 roboticswiththervr lesson2of4 drivingwithrvr |||

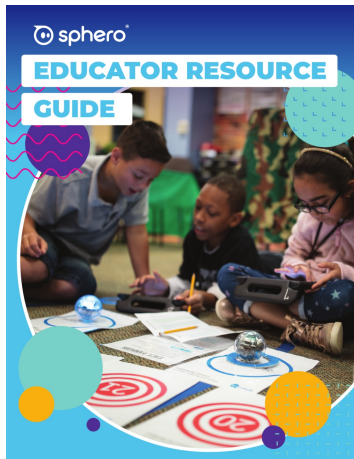
Lesson: Driving the **RVR** Verizon Innovative Learning Lab Program Name:

_____ Date: _____ Class Period: _____

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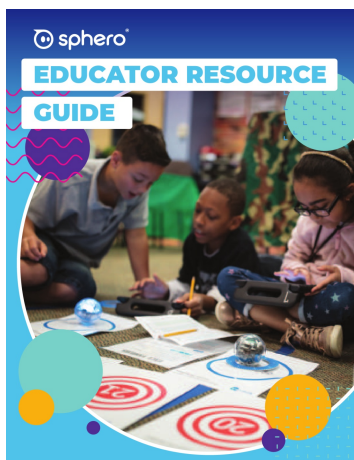
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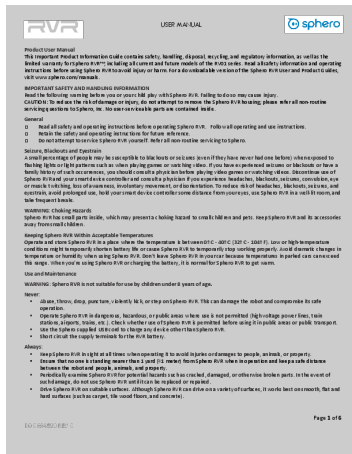
sphero.com/pages/global-challenge TABLE OF CONTENTS Intro to the Sphero Global Challenge 3 BOLT Sp ... applies Needed Craft Supplies: Rubber Bands String Cups Sphero Global Challenge Launch Video Sphero **RVR** littleBits Learning Objectives Students will be able to identify goals of the Sphero Global C... lang:en **score:36** filesize: 6.99 M page_count: 47 document date: 2020-08-24



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Facilitator Guide: Drawing with RVR Overview This lesson should take 2 class
periods, or about 100 minutes to complete. This lesson introduces students to the
Sphero **RVR** and some of its programming functions. Student...

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SXO SXORV01 rv01

USER MANUAL Product User Manual This Important Product Information Guide contains safety, handling, ... dels of the RV01 series. Read all safety information and operating instructions before using Sphero **RVR** to avoid injury or harm. For a downloadable version of the Sphero **RVR** User and Product Guides, v...
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Sphero classroom management in a socially distanced learning environment While there is no precedent ... and learning new skills safely and effectively in this new context. Whether students are programming **RVR** or creating with littleBits, we hope these tips help your classroom find success during this soc...

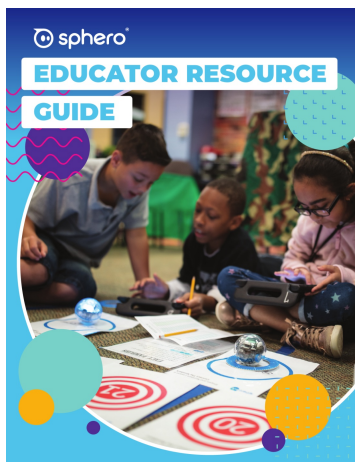
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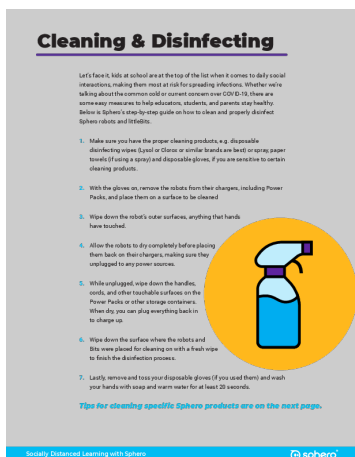


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Cleaning Disinfecting Let s face it, kids at school are at the top of the list when it comes to daily social interactions, making them most at risk for spreading infections.

Whether we re talking about the common cold or current concern over COVID-19, there are some easy measures to help educators...

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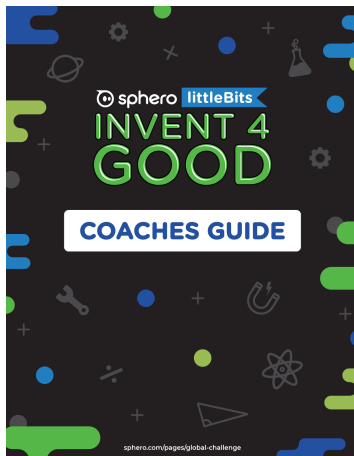
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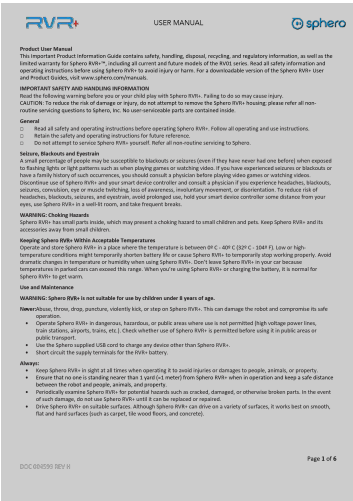
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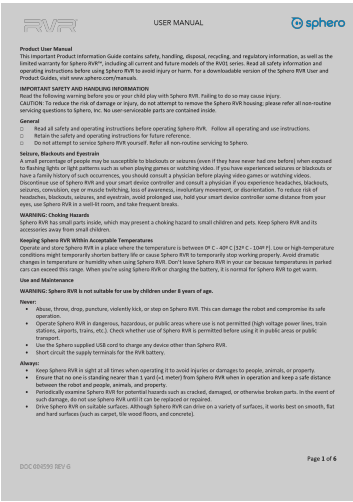
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[Sphero RVR+ User Manual: Safety, Operation, and Warranty Information](#)

Comprehensive user manual for the Sphero RVR+ robot, covering safety guidelines, operating instructions, charging, maintenance, disposal, warranty, and technical specifications. Learn how to use and care for your Sphero RVR+.

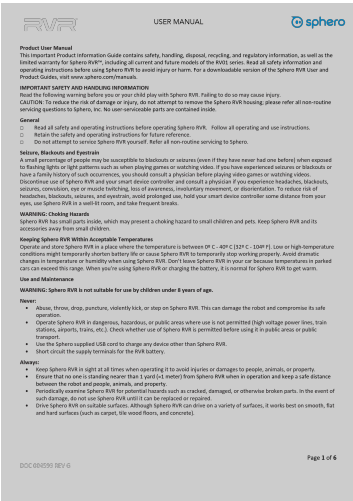
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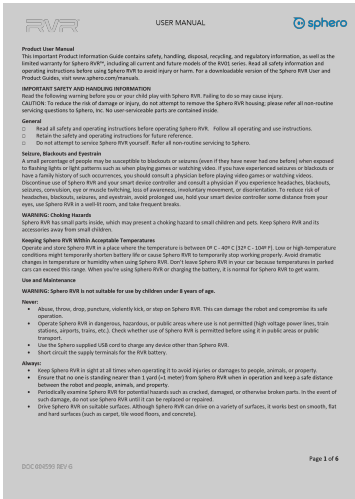
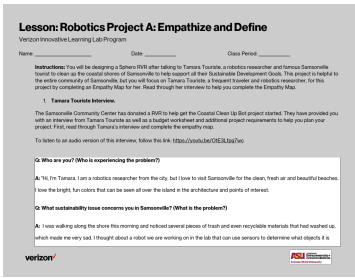
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talking to Tamara Touriste, a robotics researcher and famous Samso...

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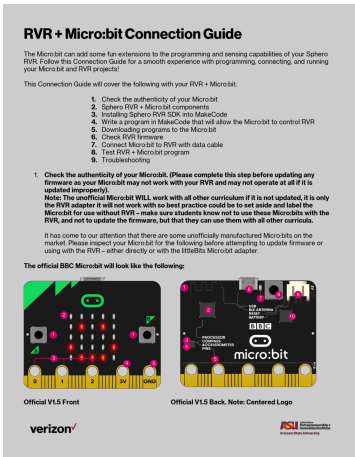
Sphero **RVR** littleBits Topper Kit QUICK START GUIDE Getting Started The Sphero

RVR littleBits Topper Kit is the easiest way to expand on the**RVR** hardware. Program

RVR with the Sphero Edu app, or control it through the Microsoft MakeCode and a

micro:bit to bring your inventions to life. You can ev...

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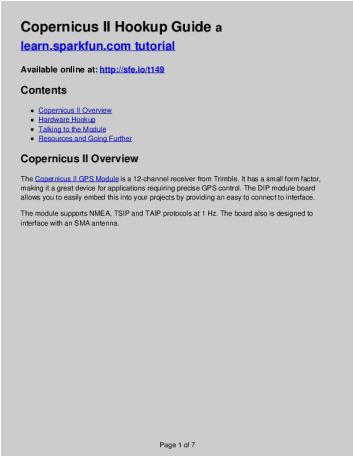
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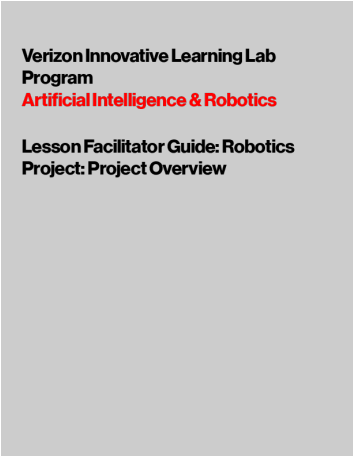
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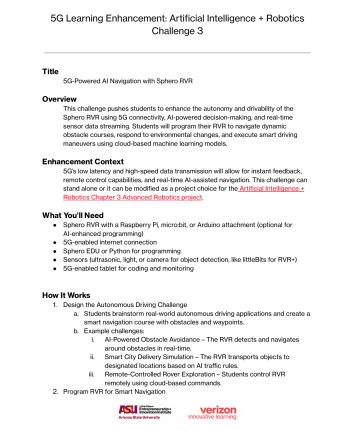


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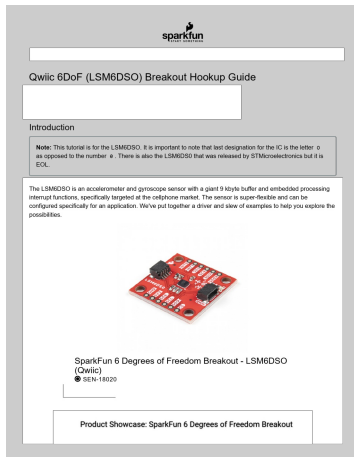


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Sphero Indi	Sphero Mini	Sphero BOLT	Sphero RVR+
			
Designed to introduce young learners to the fundamentals of computational thinking, STEM and computer science through an engaging, age-appropriate, open-ended, imagination-activated learning experience. Designed for experienced coding educators.	Small enough for hallway navigation and large enough to hold interest on the floor. Mini is a beginner-friendly but feature-rich robot that can be programmed to perform a wide range of tasks.	Our most versatile robot (BOLT) is a robust introduction to the capabilities and endless possibilities for creative expression. Its ability to hold interest enough to classroom focus, it can also be used for more advanced learning with more complex programming.	BOLT is our revolutionary take on the competitive market. It's made up of all the best parts with a diverse set of sensors and capabilities. It's made up of all the best parts with a diverse set of sensors and capabilities.
Compatible with: iOS, Android, Kindle	Compatible with: iOS, Android, Kindle	Compatible with: iOS, Android, Kindle	Compatible with: iOS, Android, Kindle
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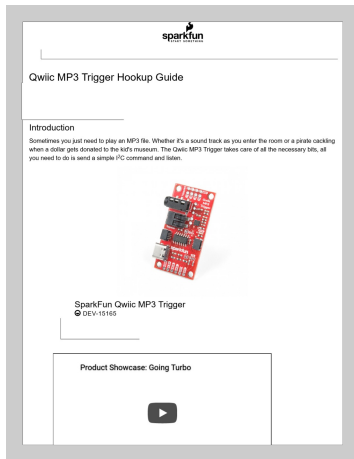
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