Training Mats for Popular International Robotics Competitions and Systems

Why wait for your competition mat each year to begin to train your rookies or build the skills of your current team members? You can start today with our universal training mats. They provide every scenario required to teach all the fundamentals of NXT/RCX/EV3 programming and similar robotics systems. Use them to design your own missions and exercises.

How to Purchase Robot Mats

1. **SHIPPING:** Production and shipping time is typically 6-8 days.

2. **METHOD:** All orders are shipped FEDEX Ground or USPS within the US and Canada.

3. **SCHOOLS VIA MAIL OR FAX:** If you are a school or organization that must use a purchase order, just forward the PO. You can email it to sales@robotmats.com or fax it to 443-307-0094 and then mail a check. As of Oct 15, 2017, we must receive payment in full for POs via check, credit card, or PayPal, before we ship.

4. **WE SHIP DIRECTLY TO THE US AND CANADA. OTHER INTERNATIONAL INQUIRIES:** International orders can be fulfilled using local production partners. Please email your request to sales@robotmats.com. We will quote you postage and estimated costs based on current currency exchange rates. We typically use providers within your region to reduce shipping costs.

5. **BULK ORDERS:** Discounts are available for orders of five or more mats (any combination). Please contact us to discuss your order.

Postage is calculated at checkout. You can estimate the postage on the RoboMats store. http://store.robotmats.com

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Custom Mats

Have a great idea for a custom mat for your program? Send us your ideas!
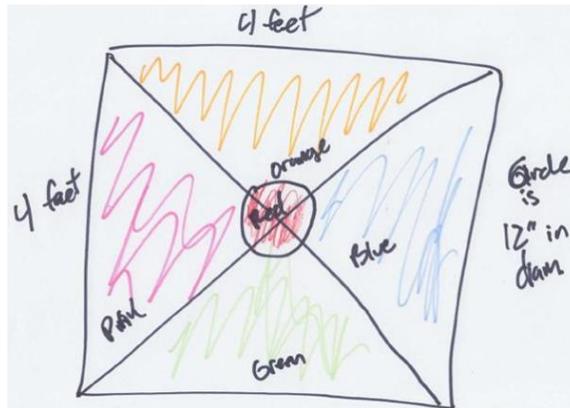
Wonder League Robotics Competition 2017 Grid Mat

This mat is designed to the specification for the 2017-18 Wonder League Robotics Competition. Includes the 1-7 and A-E labels and cm designations.

Also: Wonder League Robotics Smaller Grid Mat (not for competition) (MW2017B): *This mat is designed to work with Wonder Workshop Dash and Dot Challenge or any other grid-based robotics system. It is not for competition, but presents a smaller footprint if you have limited space.*
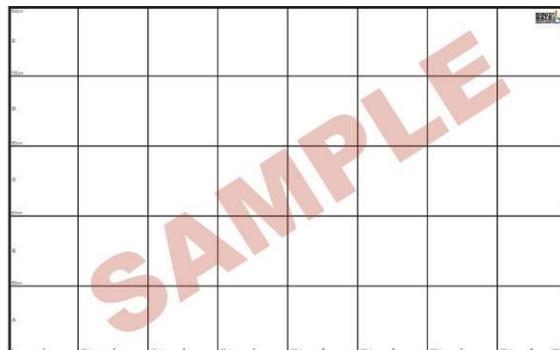
Wonder League Robotics Competition 2017 Grid Mat with Green Screen

This mat is designed to the specification for the 2017-18 Wonder League Robotics Competition. Includes the 1-7 and A-E labels and cm designations.

- Green screen with light green lines (that can be removed in edit) MW2017AGS1
- Green screen with black lines. MW2017AGS2

Mats Adapted for the Introduction to Robotics: Using the EV3 Software Appendix A-D

LEGO MINDSTORMS Education EV3 introduction courses provide practical, step by step, programming instruction for the EV3 software and LEGO EV3 system. These mats are an adaptation of the image included in Appendix A-D of the guide.
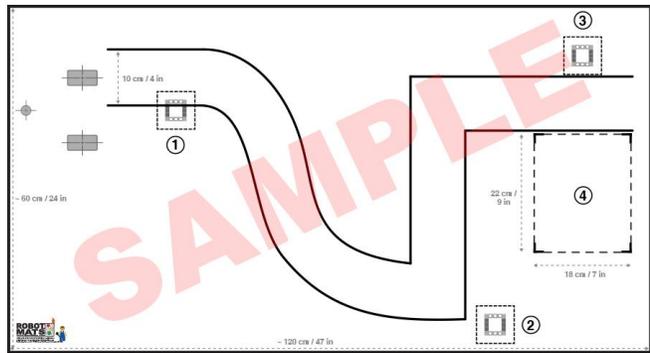

General Skills Mat

This mat contains every element present in a variety of challenges. Features include varying types of lines, counting blocks in widths and contrasts, a variety of targets, interfering backgrounds, side blocks, aiming compasses, and a 70" ruler (in US and Metric).
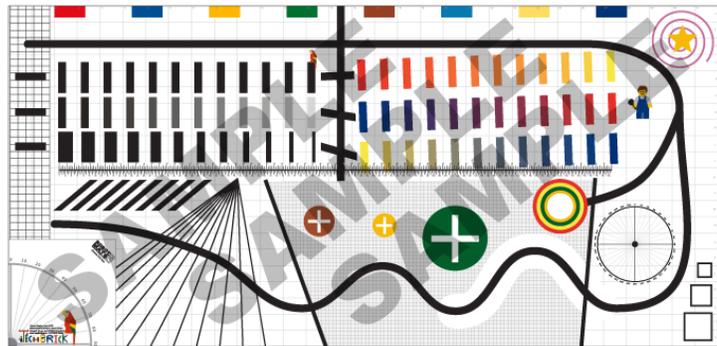

Line Following Mat

This mat focuses on line following skills. Three primary lines are provided in varying widths. Lighter cross lines provide sensor skill building scenarios. A spiral area is included as well for tight turning exercises. A medium border runs up and from left along the bottom for a path back to base.
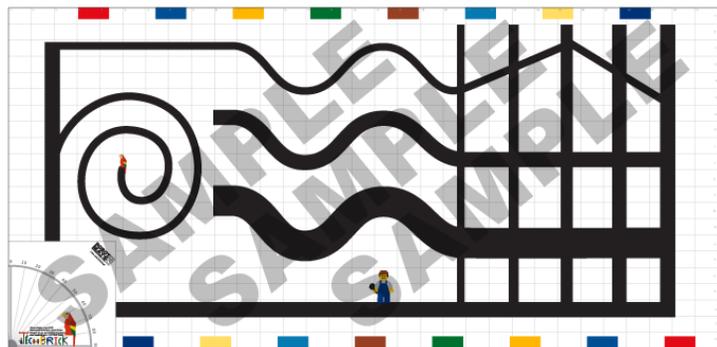
Counting and Targets Mat

This mat provides a range of counting objects including black bars, graduated gray bars, and a full range of Blue/Red/Yellow bars to work on perceptual contrast and color sensor skills. Four sets of targets are included for counting/positioning scenarios.
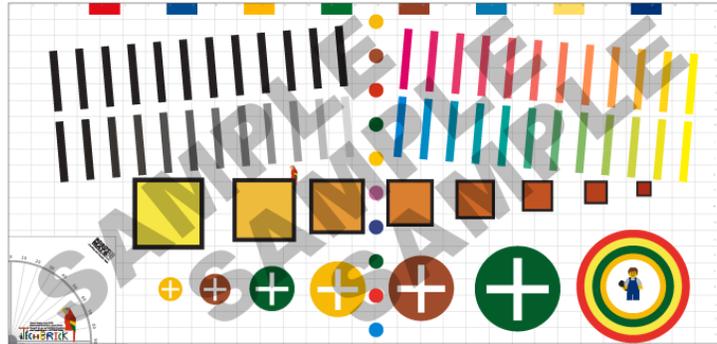
Country City Mat

This mat provides a storyboard for creative challenges. In the curriculum area we have suggested names for the areas but we'd also like your students to come up with their own stories and structures.
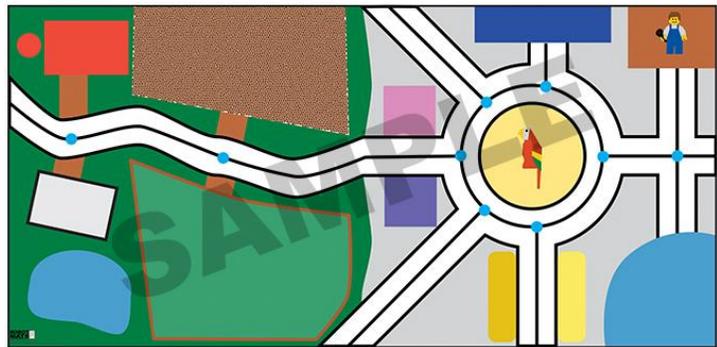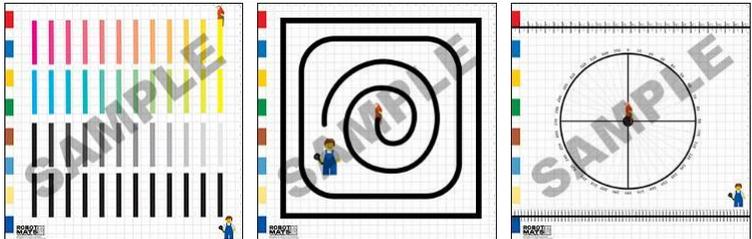

Table Top Mats

Need a simpler solution? These mats are just 28 inches square and will fit on any standard table. They feature the key issues needed to master basic programing and sensors including counting and sensor color/contrast, basic measurements, and line following. Easy to store and transport. Sold as a set.
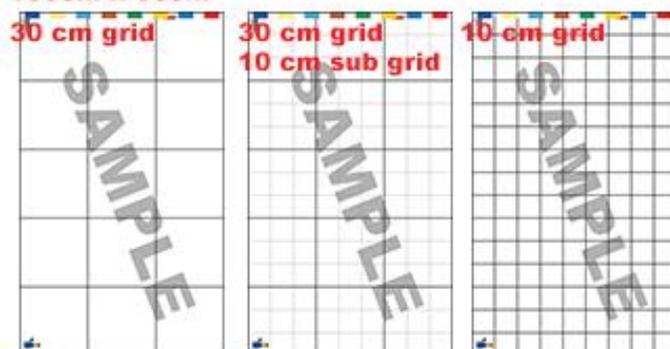

All The Grids Mats

These mats provide a simple grid pattern for Wonder Workshop robotics and similar classroom systems.

- Printed in full color
- Printed on 13 oz outdoor matte vinyl
- Classroom size of 90cm x 150cm
- Available in three patterns
    - 10 cm black grid
    - 30 cm black grid
    - 30 cm black grid with lighter 10 cm lines (most popular)

Basic Grid Mats For General Robotics
150cm x 90cm

Robot Mats at RobotMats.com.
The Ultimate Training Tool Popular International Robotics Competitions and Programs.
© 2017 and Patent Pending Marco Ciavolino & Enktesis, LLC / http://www.techbrick.com / marco@techbrick.com Unauthorized duplication or production prohibited / 1603 Belvue Drive / Forest Hill, MD 21050-2508 // Phone: 410-838-8264 // Fax: 443-307-0094

Bee-Bots General Mats

Bee-Bot is an exciting new robot designed for use by young children. This colorful, easy-to-operate, and friendly little robot is a perfect tool for teaching sequencing, estimation, problem-solving, and just having fun!
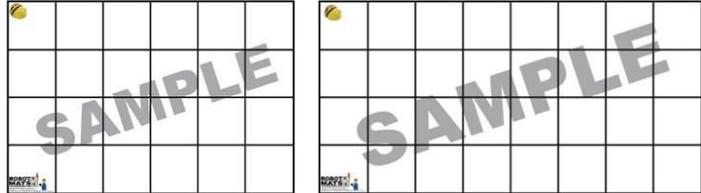
Light sensor Mania

Light sensors are the key to success in many challenges. Yet most teams barely use them. This mat gives you a full range of test scenarios in which students can refine the key tasks of using light sensors.
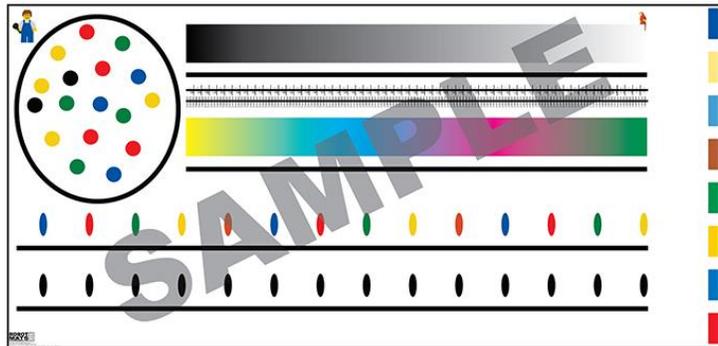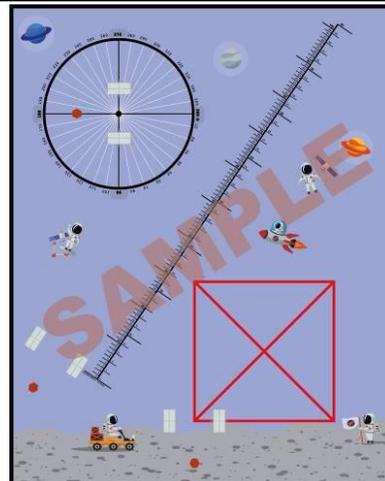
Competition Mat

Since EV3 components can easily be remote controlled we would like to see teams try FTC/FRC/VEX style competitions with LEGO EV3 systems. This mat provides a standard FTC-like field on which a number scoring elements can be placed. See the next page for an example based on the 2016-17 FTC challenge. One, two, or three robots are placed on each end as a red and blue alliance. They then do any combination for autonomous (programmed) and tele-op (driver controlled missions) to score points. We would love to see this introduced to FLL in the future so try it and let the folks at FIRST LEGO League know how much fun it is.
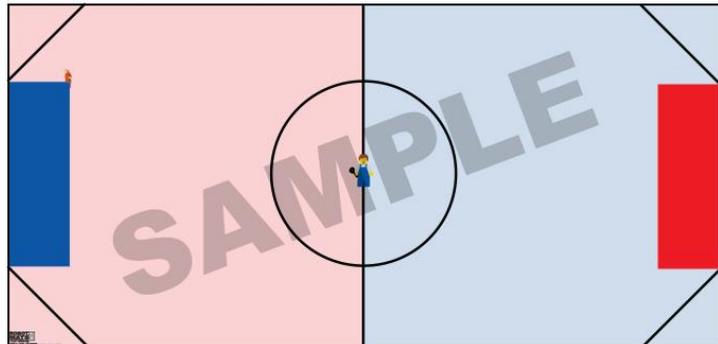
Space Challenge (EV3)

LEGO MINDSTORMS Education EV3 Space Challenge lessons are designed to fit within your class time and bring real-world scenarios to life. Students explore problems that space researchers are actually trying to solve. The seven missions challenge students to apply and creatively adapt programming and problem solving skills to construct robots that solve actual space exploration challenges. The nine individual Learning Missions encourage students to investigate, observe, calculate, and apply knowledge to solve specific tasks. Three research projects were co-developed with NASA and are designed to familiarize students with the planning process for space exploration. This mat serves as a universal training mat for the EV3 Space Challenge.
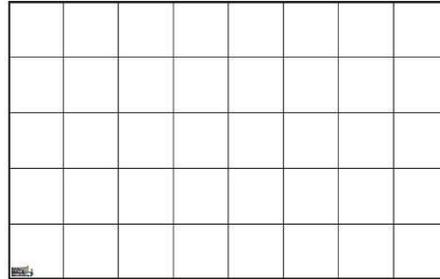
Robot Mats at RobotMats.com.
The Ultimate Training Tool Popular International Robotics Competitions and Programs.

Generic Grid Mat

50cm x 240cm with 30cm grid

Generic grid mat for use with any classroom robotics system.

Environmental Mat: USA Topographic

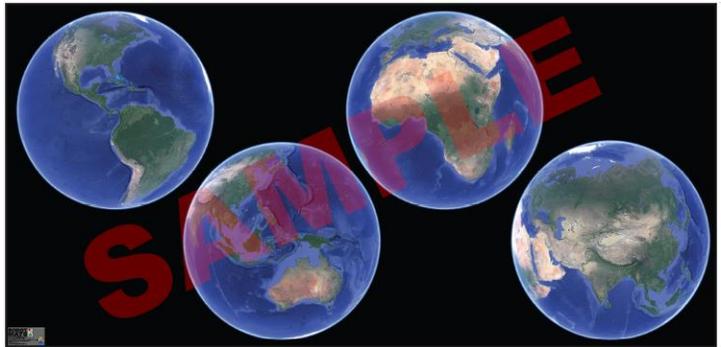Color map of the US Continent for creative use.

Available with optional grid.

Environmental Mat: World Views

Color mat of four views of the globe for creative play and research.

Available with optional grid.

Environmental Mat: Ocean Shore and Dunes

Color mat of the ocean, shore, and dunes for creative play and research.

Available with optional grid.

Environmental Mat: River City Farm

Color mat of a river, city, and farms for creative play and research.

Available with optional grid.