Did you know?



In the next decade, 80% of jobs will require math and science stills



There are over 9 million jobs in science, technology, engineering and mathematics in the LISA



STEM Occupations grew by 24% over the past decade in the United States



STEM workers earn 29% more than their non-STEM counterparts



Reasons to get involved in the WRO

Improve cognitive, fine motor, social behaviors, and sportsmanship

New opportunities for creative and critical thinking

Safe introduction to technology

Hand-on lessons with real-world applications

Fun and inspired learning

We thank all partners and volunteers who are committed to our association and the WRO each year.



Engineering Simplicity



World Robot Olympiad Code of Ethics

From the beginning, the aim of the World Robot Olympiad Association is to help young people develop their creativity and problem-solving skills. The WRO has set the following main goals:

- To give young people the opportunity to learn skills that are relevant in the 21st century, such as creative and innovative thinking
- To motivate young people to become our scientists, engineers and inventors of tomorrow
- To show young people the exciting world of automation and (robotic) technology
- To show a connection between modern technologies and their use in educational institutions
- To promote the use of robots in MINT education (mathematics, informatics, science, technology)
- To give young people from all over the world a chance to prove their skills in competitions with fun & teamwork

CONTACT US

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MASSACHUSETTS & CONNECTICUT





What is the WRO™

World Robot Olympiad

Starting in 2004, World Robot Olympiad™ has developed to a truly global competition. WRO™ tournaments are organized in more than 70 countries and each season new countries join the movement. Every November the WRO™ hosts the International final in a different country.

How to Participate in WRO™

- Be between 6 and 19 years old
- Have 2 or 3 teammates with an adult team coach
- Choose team name
- Register your team to compete in a WRO competition
- Have a LEGO MINDSTORMS EV3 Set or WeDo set
- Meet once a week to practice for the competition
- Participate at a competition

Age Group	Regular	Open	Football
6-10 WeDo	>	>	
8-12 Elementary	>	>	0
13-15 Junior	<u> </u>	<u> </u>	
16-19 Senior	<u>~</u>	~	
10-19 Football			~



Regular Category

- Solves current theme tasks on a course with a LEGO® robot
- 1 Individual course for every age group
- Robot must be reassembled at the competition
- Any programming language is allowed for 16-19 years



Open Category

- All age groups build a robot model using current theme
- Separate scoring for each age group
- Free choice of building materials and programming languages
- Judges evaluate presentation on competition day



Football

Category

- Playing football with two LEGO® robots per team
- Infrared ball and compass sensors allow orientation on the field
- Robot must be reassembled at the competition
- Any programming languages is allowed



WeDo

Category

- ntroduced in 2018 for ages 6-10 years old
 - Uses the LEGO Education WeDo Core Set with any
- number and combination of controllers, motors and sensors allowed.
- Regular Category Robot must be reassembled at the competition

WRO™ 2019 Season

January 15, 2019

The WRO announces the new game theme and releases the game rules

January 15 - May 30, 2019

Team registration begins for Massachusetts & Connecticut Nationals Qualifier Teams agree to weekly meeting to build and program their robot for competition

January 19, 2019

Massachusetts & Connecticut kick-off and informational meeting.
Location To Be Announced

June 15, 2019

Summer kick-off
Location to be Announced

August 10, 2019

Massachusetts & Connecticut Nationals Qualifier, James L. McKeown Boys & Girls Club of Woburn

Qualifying teams are invited to Nationals

September 13-14, 2019

Qualifying teams attend Nationals Location to be Announced

November 8-10, 2019

Teams from over 65 countries compete in the three-day WRO World Final in Hungary



Regular Category 2018 1st place winners Sushi Bots from Glastonbury, CT