

## WER USA 2020-2021 "Internet of Things" - Hybrid World Educational Robotics Tournament - USA Chapter

The World Federation of Educational Robotics invites Elementary, Middle, and High School students from public and private institutions to participate in The WER 2020 "Internet of Things" Tournament. Due to the health and social conditions that we are currently experiencing, WER USA designed a competition in which the participants' health and integrity is top priority while still providing a meaningful life experience.

The WER USA 2020-2021 Hybrid will hold Virtual PREP (training) tournaments so that students can get used to the dynamics of the competition. Participation in Virtual PREP tournaments is optional. National Finals, which will be held in a face-to-face competition with all the measures established by health authorities.

The best teams from the National Tournaments will win a place to represent USA in the WER *United Kingdom* International Tournament, to be held in England in July-August 2021. **Each member of a team securing a place in the WER UK International Tournament, along with their coach or mentor, will receive a sponsorship covering the following expenses: registration for the UK tournament, hotel nights, and financial support to cover for transportation fees and meals.**

### Who can participate?

Team size: 2 to 3 students. (Individual Competition: 1 participant)

4 Categories: Individual Competition (9-12 years old), Elementary School, Middle School, and High School.

Students must be enrolled or affiliated with an educational institution, issuing a letter stating the above. This will not be required for the Individual Competition.

**Registration start date:** December 8th, 2020.

### Competition format

**Theme 2020:** Internet of Things – Internet of Everything

**Kits authorized to compete:** Elementary School: Option 1: Abilix brand Krypton 3 + Robotics U; Option 2: Abilix brand Krypton 4. Middle School: Option 1: Abilix brand Krypton 5; Option 2: Krypton 6. High School: Abilix brand Krypton 8. Individual Competition: Robotics U. Each bundle package comes with the IoT Competition Kit (with more than 400 pcs) and the Competition Arena.

**WER Virtual PREP Tournaments.** Each of these training tournaments will consist of 2 phases:

Asynchronous Virtual 1st stage. The challenge will be revealed two days before each virtual face-to-face competition. Teams will have a deadline to upload their video with the solution for the challenge until 8:00 pm the day before their virtual face-to-face competition takes place. This stage will be focused on the evaluation of analysis and problem-solving skills through innovative designs.

2nd stage Virtual face-to-face. It will be synchronous with activated video from each participating team. The participants will have to be connected concurrently through a communication platform that will be provided by WER. Students will have to perform a series of challenges against the clock, applying their technical knowledge of assembly and programming. The teams will have to record and upload a video to the official platform of WER US. All challenges will need to be solved within a designated time limit. The time at which each video (solved challenge) is uploaded to the platform will be considered as official.

The first stage of the virtual qualifying tournament will have a weight of 25% of the final score, and the second phase will weight 75% of the final score. A judge's panel will evaluate both phases, and the results will be revealed two business days after the competition. **The competition rules for the WER PREP tournaments will be announced on January 15<sup>th</sup>, 2021.**

The In-person National Tournament WER USA 2020 - 2021. The detailed competition phases and dynamics will be revealed three business days after the last WER PREP tournament.

## Steps to get to represent the USA internationally:

### 1- WER Virtual PREP tournament:

April to June 2021.

Each category will have virtual preparation events so students can get used to the competition. Also, there will be exclusive virtual training tournament for teams from specific educational systems/districts or groups (at least 20 teams registered to WER. Upon special request from school systems virtual PREP tournament might be held on-site).

### 2- USA National WER:

Early July 2021.

Each category will be represented in The WER National tournament, which is designed to meet all the official sanitary regulations. The top-ranking teams will win a place to represent the USA in the WER England's International Competition.

### 3- WER International Tournament:

The top-ranking teams from the National Tournaments will win a place to represent the USA in the following international event:

- The WER *United Kingdom* on end of July 2021 in London.

The number of teams representing the USA, the exact dates, and the international tournament venues will be revealed as soon as they are available.

### For WER UK, USA participants will receive sponsorship on (3 participants + 1 coach/mentor):

- Registration to WER UK International Tournament.
- Hotel nights
- Financial support to cover transportation and meal expenses.
- Competition kit and arena for the International Tournament

## For more information:

Visit: <http://www.wergame.us> and <http://www.novumedu.com/wer>

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