



Lone Star EARLY Robotics Tournament

February 2nd, 2019
Houston, Texas
Burbank Middle School
8:00-4:00

Engineering And Robotics Learned Young EARLY Galacticville Mission Red Rules

Roboticians, the Global Association of Space Agencies (GASA) needs your help to colonize Mars! Before we can live on Mars, GASA needs your help preparing a suitable atmosphere for humans to live on Mars, by building a robot to take *Mars Atmosphere Construction Kits (MACs)* to Mars and the moons of Mars, Phobos & Deimos. The MACs will be used to create an atmosphere so future generations can picnic, bike, hike, and camp on Mars!

Below is everything that we know about the mission.

- The team must be ready to execute the mission for your EARLY Tournament.
- The equipment available for a team to build a robot is 3 LEGO® Simple & Motorized Mechanisms Kits.
- The following diagram presents the environment that will be encountered.

Field 48" x 48" x 1/2" plywood	Field Perimeter 2" x 4" boards	Deimos 15" x 5" 1/2" plywood 3" from Top Border 23" from Right Border
Moon 12.5" x 7.5" 1/2" plywood	Space Station 12.5" x 5" "Shields" with 3" x 1" molding	Mars 15" x 20"
Earth 12.5" x 15"	Solar Wind 4 strips 1/2" x 1/2" molding 1" separation	Phobos 15" x 15" 1/2" plywood 5" from Lower Border 23" from Right Border
Home 15" x 15"		Galaxy 40" x 40" "Everything Else"

Galacticville

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The following diagram presents where the MACs and Carriers will be in Galacticville.

Phoenix Carrier Viking Carrier Mariner Carrier

Spirit Carrier Sojourner Carrier Opportunity Carrier Pathfinder Carrier

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Please register teams by contacting Lucien Junkin at Lucien.Q.Junkin@NASA.gov by January 29th, 2019. Registration fee is \$40 per team.

www.EARLYrobotics.org