

Engineering And Robotics Learned Young

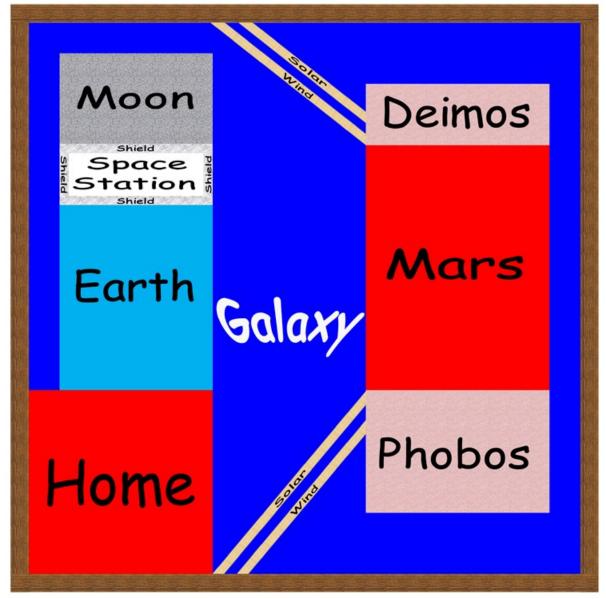
♦ EARLY **♦**

Galactic ville Mission

Mission Field Details

The EARLY Galactic ville Robotics Competition Mission Field is a 4' \times 4' field with a 2" \times 4" border with various terrain features. The following information is provided for constructing the mission field.

Galacticville



Galactic ville Mission Field

Field $48" \times 48" \times 1/2"$ plywood

Field Perimeter 2" x 4" boards

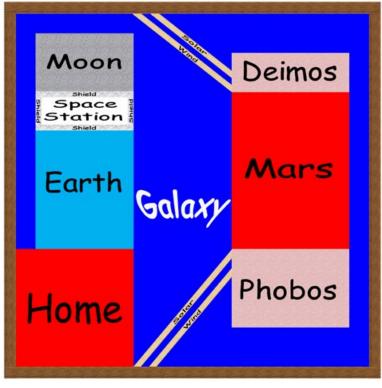
Moon 12.5" × 7.5" \(\frac{3}{4}\)" plywood

Space Station 12.5" \times 5" "Shielded" with $\frac{3}{4}$ " \times $\frac{1}{4}$ " molding

Earth 12.5" × 15"

Solar Wind 4 strips $\frac{3}{4}$ " $\times \frac{1}{4}$ " molding $\frac{3}{4}$ " separation

Home 15" × 15"



Galactic ville Mission Field Dimensions

Deimos $15" \times 5"$ $\frac{3}{4}"$ plywood 5" from Upper Border

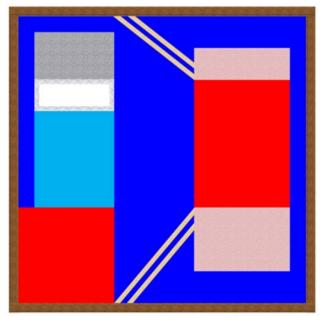
Mars 15" × 20"

2½" from Right Border

Phobos
15" x 10"

3" plywood
5" from Lower Border
2½" from Right Border

★ Galaxy ★ 45" x 45" "Everything Else"



Galactic ville Mission Field Rendering



Galactic ville Mission Field Image



View from the HOME & PHOBOS



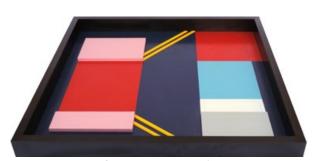
View from the HOME



View from the EARTH



View from the MOON



View from **DEIMOS** & the **MOON**



View from the DEIMOS



View from the MARS



View from the PHOBOS

- The bottom of the mission field is a 4' \times 4' sheet of $\frac{1}{2}$ " plywood.
- The outer boundary of the mission field, also referred to as the border and field perimeter, is made of 2x4 boards (actual dimension of $1\frac{1}{2}$ " x $3\frac{1}{2}$ ") and is **black**. The side of the 2x4 board that is $1\frac{1}{2}$ " is attached to the plywood with glue, nails, or screws.
- HOME is a 15" by 15" flat area and is red.
- The EARTH is a 12.5" by 15" flat area and is *light blue*. The EARTH is adjacent to HOME, is adjacent to the SPACE STATION, and is 2.5" from the left border.
- The SPACE STATION is a 12.5" by 5" area and is white. The SPACE STATION is adjacent to EARTH, is adjacent to the MOON, and is 2.5" from the left border. The SPACE STATION includes the SHIELD that is made of $\frac{3}{4}$ " x $\frac{1}{4}$ " screen molding, and is white; the molding is fastened to the mission field with glue, nails, or screws. The screen molding can be purchased at Home Depot (part # 927-139).
- The Moon is a 12.5" by 7.5" piece of $\frac{3}{4}$ " plywood and is *gray*. The Moon is adjacent to the SPACE STATION, is 2.5" from the left border, is 2.5" from the top border, and is fastened to the mission field with glue, nails, or screws.
- **DEIMOS** is a 15" by 5" piece of $\frac{3}{4}$ " plywood and is **pink**. **DEIMOS** is adjacent to **MARS**, is 2.5" from the right border, is 5" from the top border, and is fastened to the mission field with glue, nails, or screws.
- Mars is a 15" by 20" flat area and is red. Mars is adjacent to DEIMOS, is adjacent to PHOBOS, and is a 2.5" from the right border.
- PHOBOS is a 15" by 10" piece of $\frac{3}{4}$ " plywood and is **pink**. PHOBOS is adjacent to **MARS**, is 2.5" from the right border, is 5" from the bottom border, and is fastened to the mission field with glue, nails, or screws.
- The Galaxy is a 45" by 45" flat area and is *navy blue*. The Galaxy includes all the area that is not covered by HOME, the EARTH, the SPACE STATION, the MOON, DEIMOS, MARS, and PHOBOS. The Galaxy includes the Solar WIND.
- The SOLAR WIND is made from $\frac{3}{4}$ " x $\frac{1}{4}$ " screen molding and is **yellow**. The SOLAR WIND is made of two sets of molding with two strips each; the molding is $\frac{3}{4}$ " apart and is fastened to the mission field with glue, nails, or screws. The screen molding can be purchased at Home Depot (part # 927-139).
- The light blue color can be made by mixing 1 part navy blue paint with 2 parts white paint.
- The gray color can be made by mixing 1 part black paint with 3 parts white paint.
- The pink color can be made by mixing 1 part red paint with 10 parts white paint.

Please contact <u>Mission.Control@EARLYrobotics.orq</u> with any questions or comments.

Thank you for maintaining the spirit of the game!