

Engineering And Robotics Learned Young

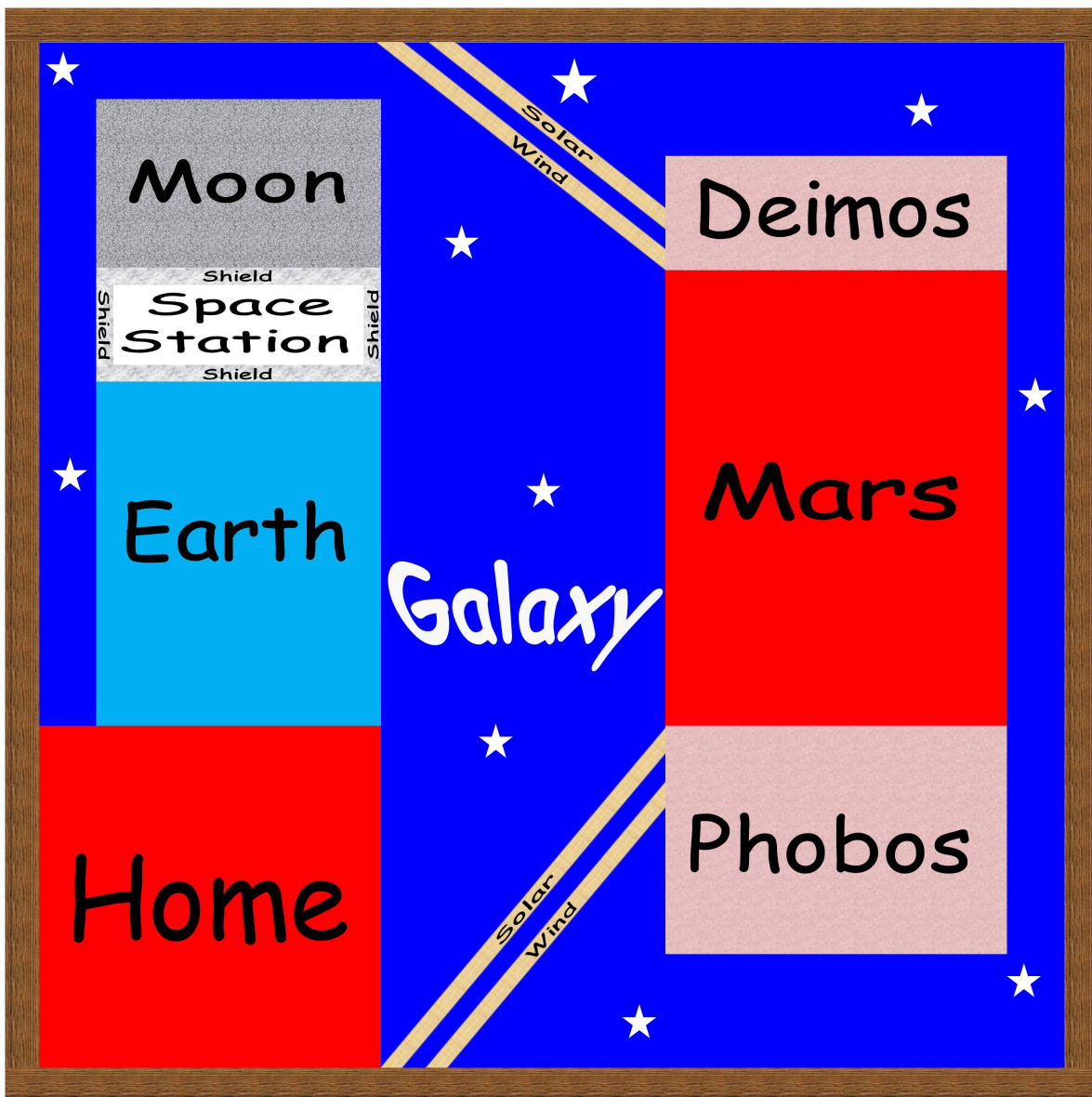
◆ EARLY ◆

Spring 2012 Robotics Competition

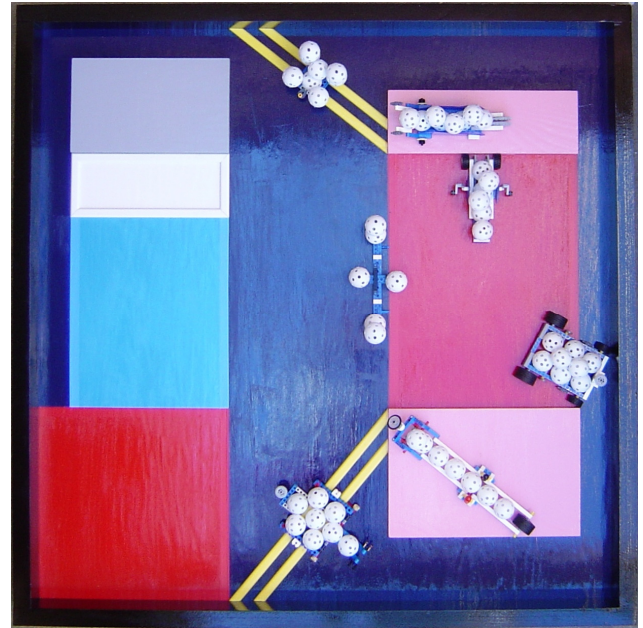
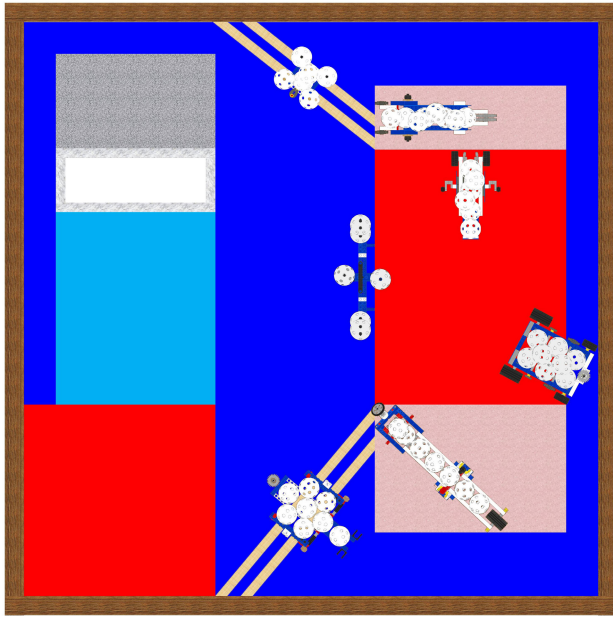
Mission Field Details

The Spring 2012 EARLY Robotics Competition mission field, Galacticville, is a 4' x 4' field with a 2" x 4" border with various terrain features. The following information is provided for constructing the mission field.

Galacticville



Spring 2012 EARLY Mission Field



Spring 2012 Mission Model Positions

Field
48" x 48"
 $\frac{1}{2}$ " plywood

Field Perimeter
2" x 4" boards

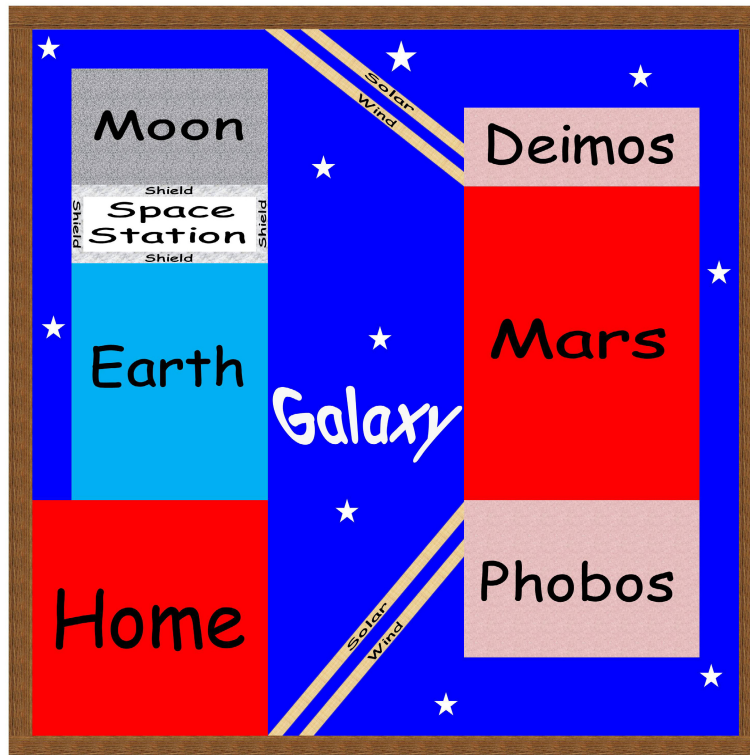
Moon
12.5" x 7.5"
 $\frac{3}{4}$ " plywood

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

Earth
12.5" x 15"

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

Home
15" x 15"



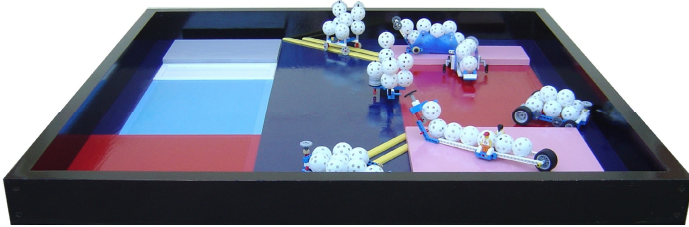
Deimos
15" x 5"
 $\frac{3}{4}$ " plywood
5" from Upper Border
2 $\frac{1}{2}$ " from Right Border

Mars
15" x 20"

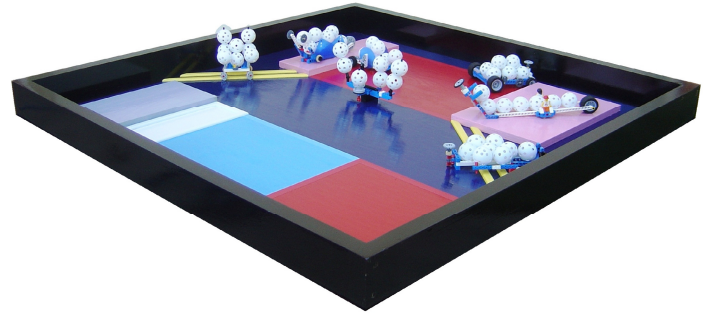
Phobos
15" x 10"
 $\frac{3}{4}$ " plywood
5" from Lower Border
2 $\frac{1}{2}$ " from Right Border

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

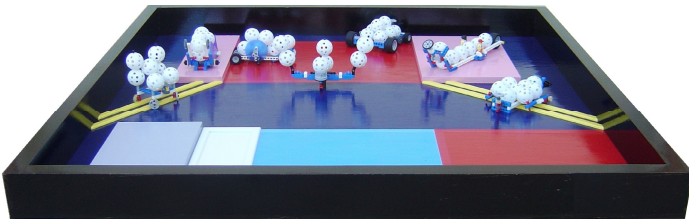
Galacticville



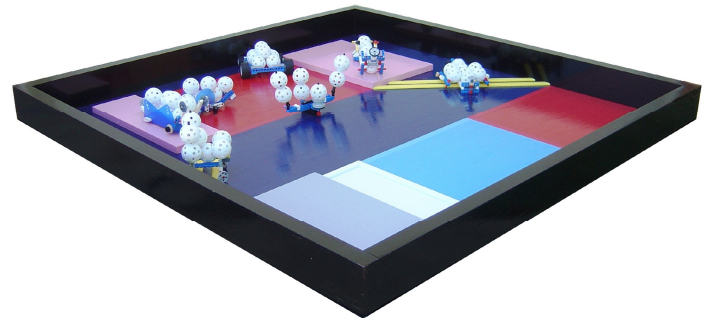
View from the **HOME & PHOBOS**



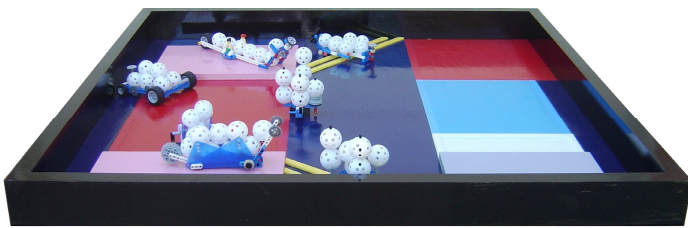
View from the **HOME**



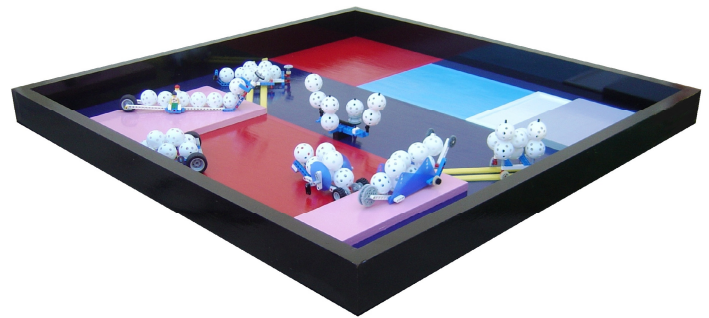
View from the **EARTH**



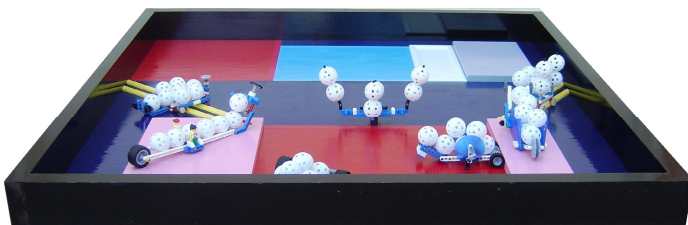
View from the **MOON**



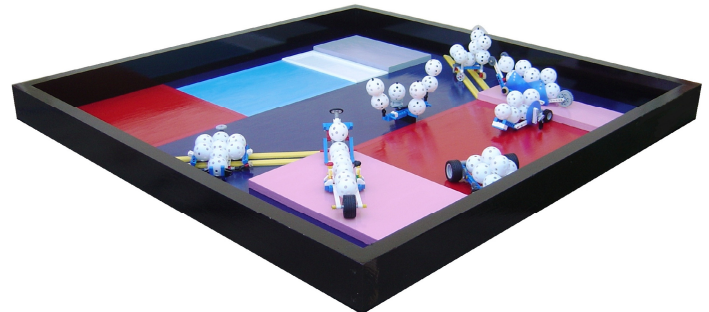
View from the **MOON & DEIMOS**



View from the **DEIMOS**



View from the **MARS**



View from the **PHOBOS**

- The bottom of the mission field is a 4' x 4' sheet of $\frac{1}{2}$ " plywood.
- The outer boundary of the mission field 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" away from the left mission field boundary.
- 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" away from the left mission field boundary. The **SPACE STATION** includes the **SHIELD** that defines the perimeter of the **SPACE STATION** and is made from $\frac{3}{4}$ " x $\frac{1}{4}$ " screen molding; 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" away from the left mission field boundary, and is 2.5" from the upper mission field boundary. The plywood 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 mission field boundary, and is 5" from the upper mission field boundary. The plywood 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 2.5" away from the right mission field boundary.
- **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 mission field boundary, and is 5" from the lower mission field boundary. The plywood 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 Mission.Control@EARLYrobotics.org with any questions or comments.

Thank you for maintaining the spirit of the game!