

# Engineering And Robotics Learned Young

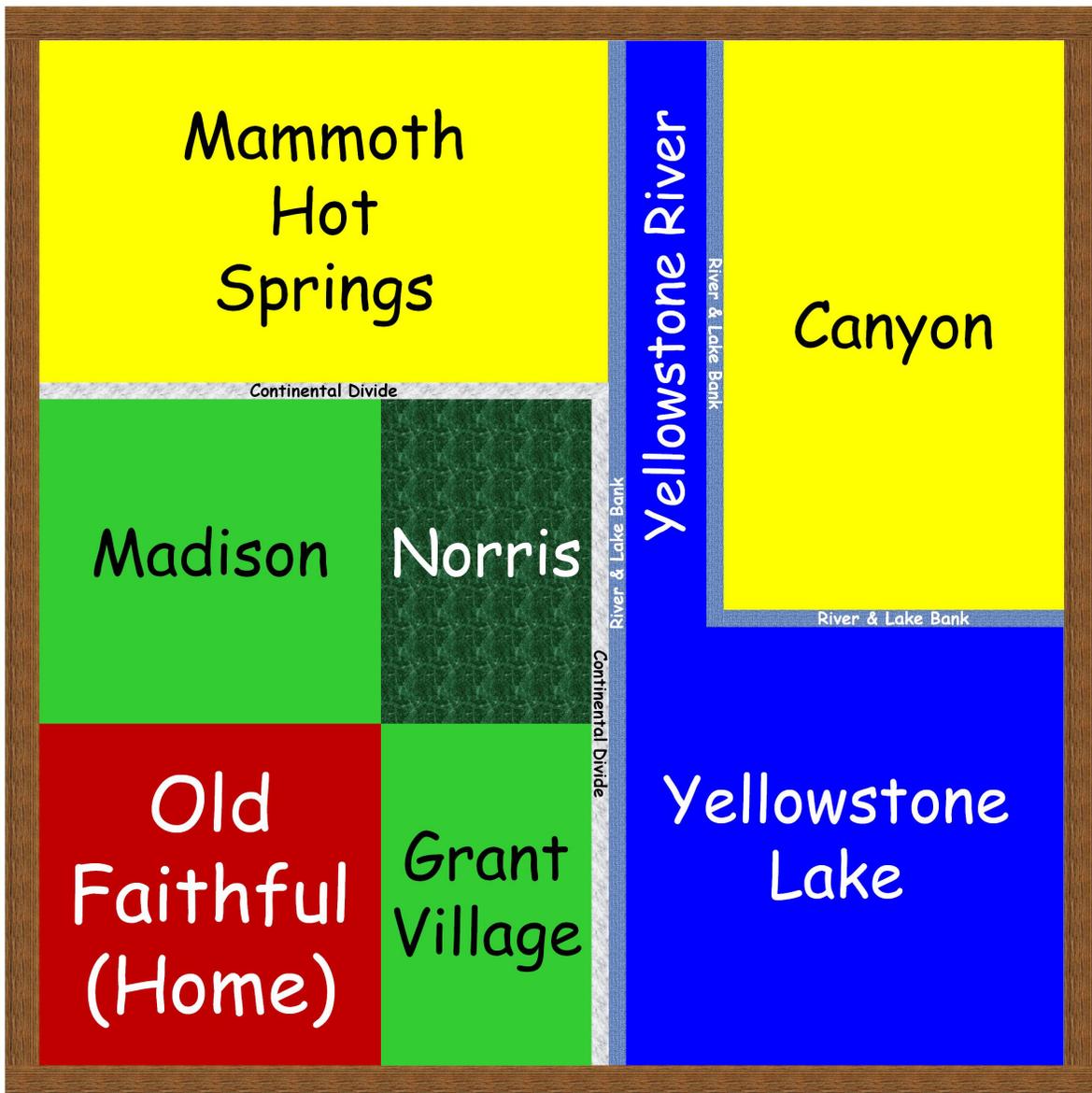
◆ EARLY ◆

## 2016-2017 Robotics Competition

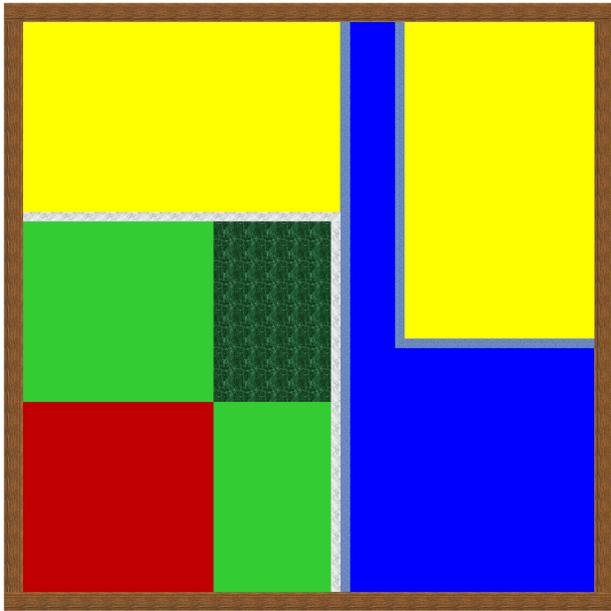
### Mission Field Details

The 2016-2017 EARLY Robotics Competition mission field, **Yellowstone**, 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.

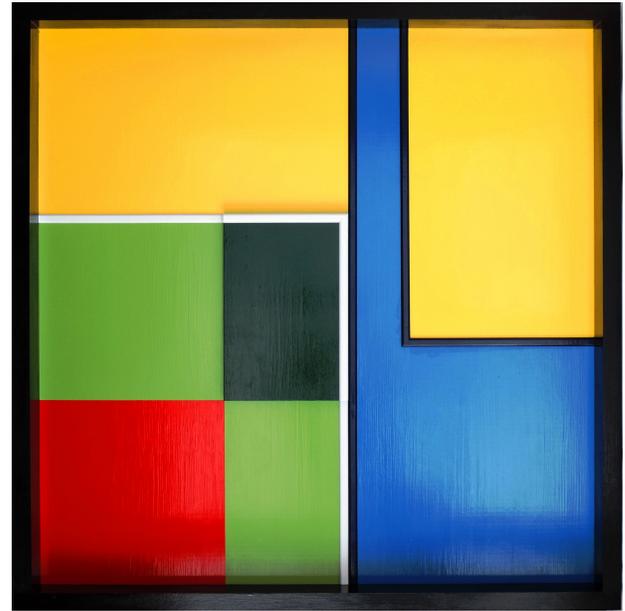
## Yellowstone



2016-2017 EARLY Mission Field



Mission Field Rendering



Mission Field Image

**Field**  
48" x 48"  
 $\frac{1}{2}$ " Plywood

**Field Perimeter**  
2" x 4" Boards

**Mammoth Hot Springs**  
25" x 15"

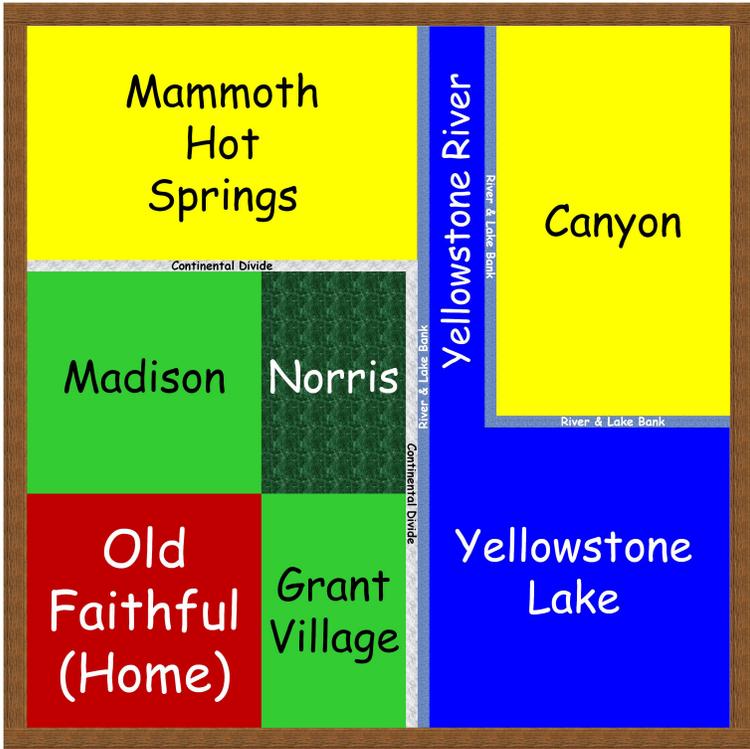
**Madison**  
15" x 15"

**Norris**  
10" x 15"  
 $\frac{3}{4}$ " Plywood

**Grant Village**  
10" x 15"

**Continental Divide**  
 $\frac{3}{4}$ " x  $\frac{1}{4}$ " Molding

**Old Faithful (Home)**  
15" x 15"



**Canyon**  
15" x 25"

**Yellowstone River**  
5" x 25"

**Yellowstone Lake**  
20" x 20"

**River & Lake Bank**  
 $\frac{3}{4}$ " x  $\frac{1}{4}$ " Molding

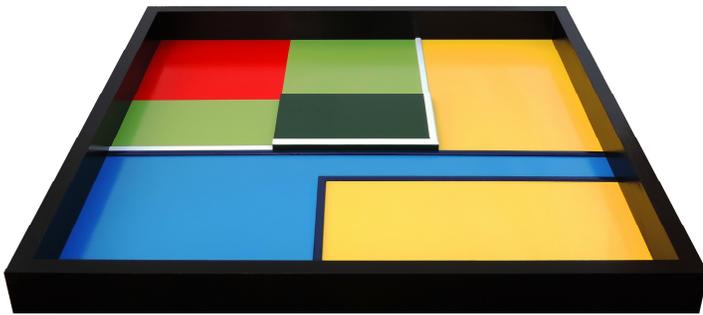
Yellowstone



View from **GRANT VILLAGE**



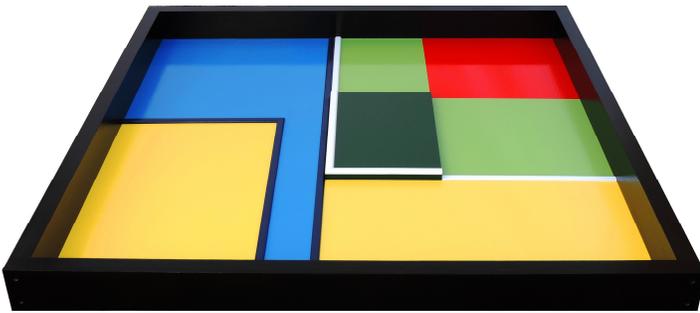
View from **YELLOWSTONE LAKE**



View from **YELLOWSTONE LAKE & CANYON**



View from **CANYON**



View from **YELLOWSTONE RIVER**



View from **MAMMOTH HOT SPRINGS**



View from **MADISON**



View from **OLD FAITHFUL (HOME)**

- 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.
- **OLD FAITHFUL (HOME)** is a 15" by 15" flat area and is *red*.
- **MADISON** is a 15" by 15" flat area and is *light green*. **MADISON** includes part of the **CONTINENTAL DIVIDE** 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).
- **GRANT VILLAGE** is a 10" by 15" flat area and is *light green*. **GRANT VILLAGE** includes part of the **CONTINENTAL DIVIDE** 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).
- **NORRIS** is a 10" by 15" piece of  $\frac{3}{4}$ " plywood and is *dark green*. **NORRIS** includes part of the **CONTINENTAL DIVIDE** that is made of  $\frac{3}{4}$ " x  $\frac{1}{4}$ " screen molding and is *white*; the molding is fastened to the plywood with glue, nails, or screws. The screen molding can be purchased at Home Depot (part # 927-139).
- **MAMMOTH HOT SPRINGS** is a 25" by 15" flat area and is *yellow*.
- **CANYON** is a 15" by 25" flat area and is *yellow*.
- **YELLOWSTONE RIVER** is a 5" by 25" flat area and is *blue*. The **YELLOWSTONE RIVER** includes part of the **RIVER & LAKE BANK** that is made of  $\frac{3}{4}$ " x  $\frac{1}{4}$ " screen molding and is *dark blue*; 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).
- **YELLOWSTONE LAKE** is a 20" by 20" flat area and is *blue*. The **YELLOWSTONE LAKE** includes the **RIVER & LAKE BANK** that is made of  $\frac{3}{4}$ " x  $\frac{1}{4}$ " screen molding and is *dark blue*; 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 *blue* color can be made by mixing 2 parts navy blue paint with 1 part white paint.
- The *light green* color can be made by mixing 1 part dark green paint with 2 parts yellow paint.

Please contact [Mission.Control@EARLYrobotics.org](mailto:Mission.Control@EARLYrobotics.org) with any questions or comments.

Thank you for maintaining the spirit of the game!