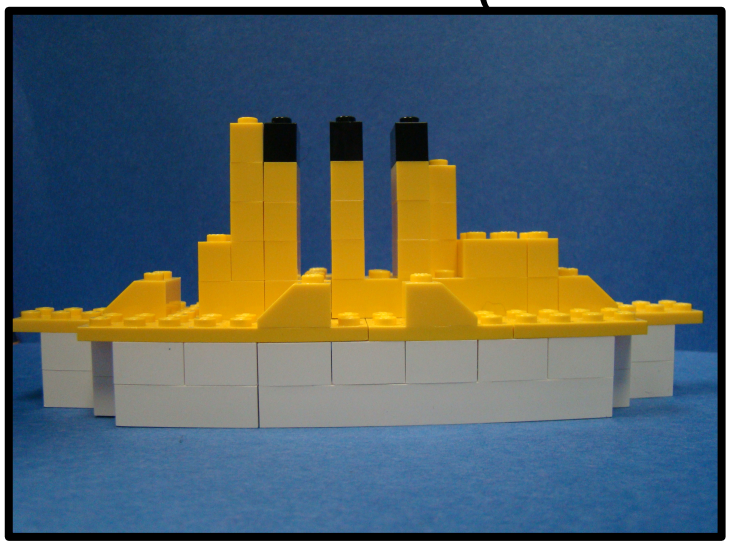
BRICK BY BRICK: LEGO® SHIPBUILDING

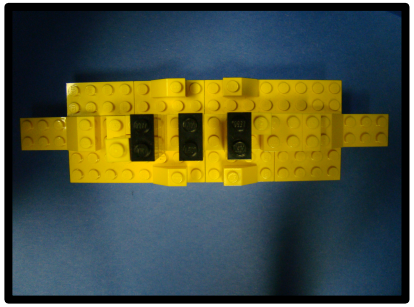
Hampton Roads Naval Museum
Local History. World Events.

LEVEL: MEDIUM (USS Connecticut)

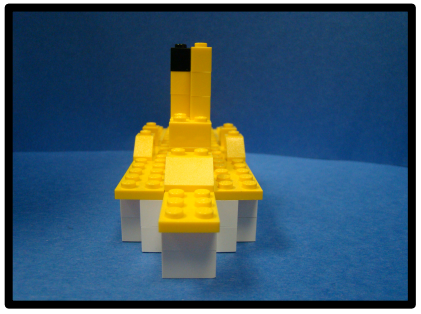


SIDE

A Note on Dimension:
The instructions included for this ship model represent a new educational initiative by the Hampton Roads Naval Museum in order to promote STEM principles under the lens of naval history. When properly assembled, each graph (or Step) represents a layer of bricks built to resemble a design of a specific ship used in American naval history. Colors represent each specific layer of the vessel, from the keel to the top masts. Please note that the sizes and shapes represented in these instructions are squared. However, they are not to scale with LEGO brick sizes. They merely show the graphical placement locations of brick layers. For more information or questions, please email Matthew Eng at matthew.t.eng@navy.mil.



TOP



FRONT

WHITE, YELLOW, AND BLACK BRICKS ARE REQUIRED FOR THIS MODEL.

BRICK SUPPLY LIST

BRICKS	WHITE	YELLOW	BLACK
1x1	0	8	0
1X2	0	12	3
1x4	4	0	0
1x6	4	0	0
1x10	4	0	0
2x2	2	3	0
2x3	8	0	0
2x4	0	0	0
2x6	4	1	0
FLAT BRICKS			
2x3	0	2	0
2x4	0	4	0
4x4	0	4	0
SLANTED BRICKS			
1x2	0	4	0
2x2	0	2	0
TOTALS:	**26**	**40**	**3**

TOTAL BRICKS: 69

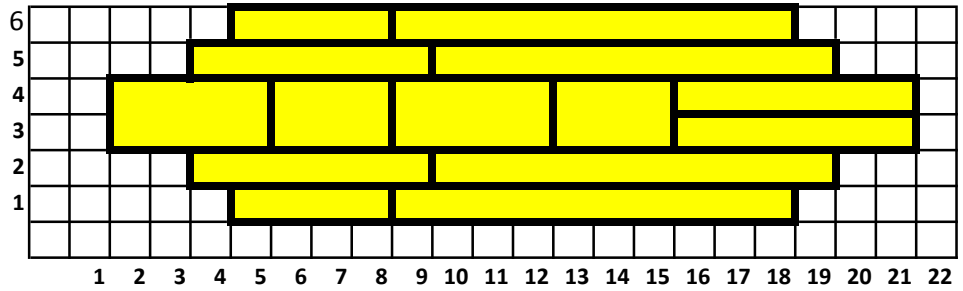
Ship Models included in this program are built with LEGO® bricks. LEGO® is a trademark of the LEGO Group of companies which does not sponsor, authorize, or endorse this site.

USS *Connecticut*

Instructions: Follow each step and layer the color-coded bricks on your building grid. Subsequent steps are layered on top of previous layers.

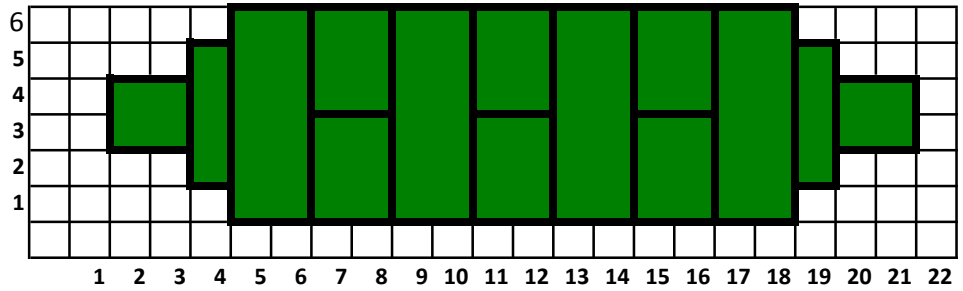
Step 1: Lay down the first layer (shown in Yellow)

WHITE BRICKS



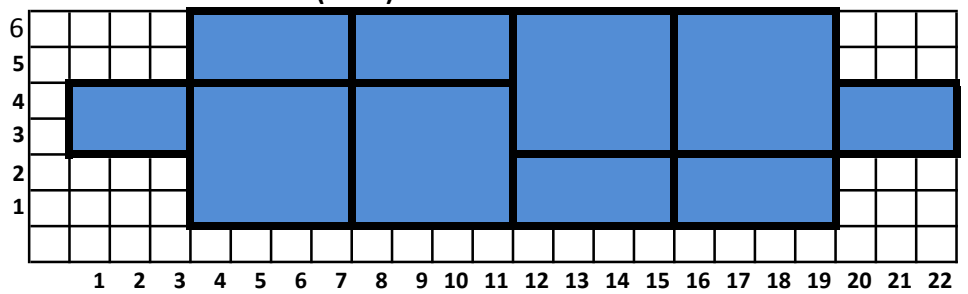
Step 2: Lay down the second layer (shown in Green)

WHITE BRICKS



Step 3: Lay down the third layer (Shown in Blue)

YELLOW BRICKS (THIN)

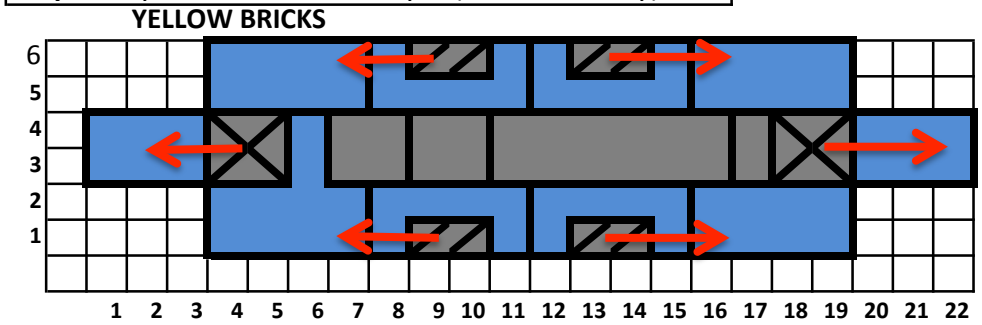


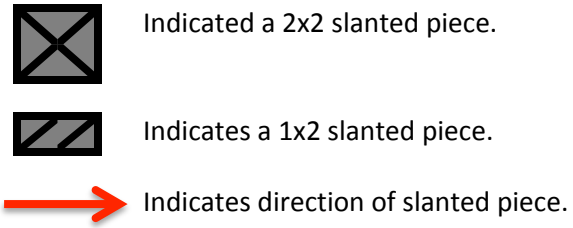
Note: Thin (flat) bricks are required for this step.

NAVAL MUSEUM
Local History. World Events.

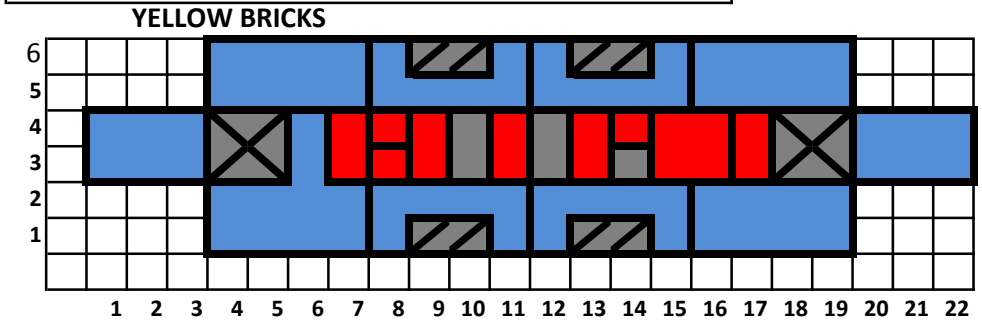
USS *Connecticut*
Step by Step Instructions

Step 4: Lay down the fourth layer (Shown in Gray)

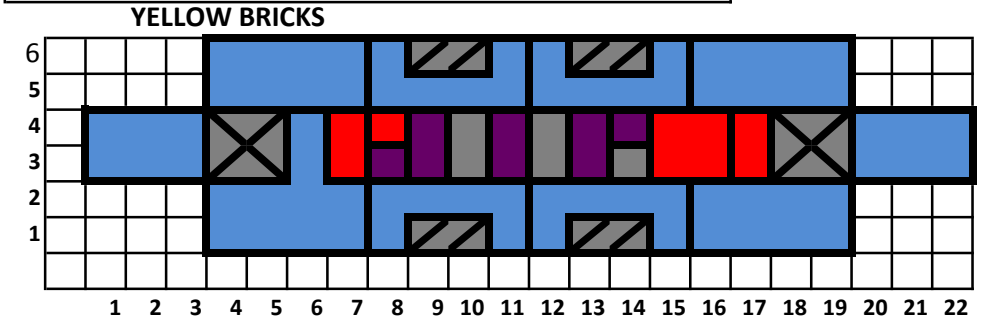




Step 5: Lay down the fifth layer (Shown in Red)

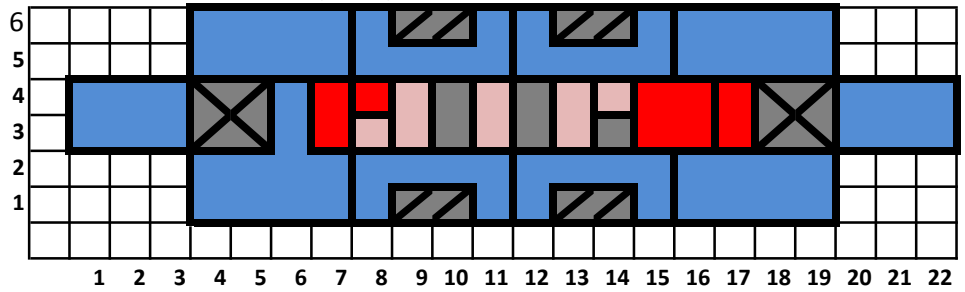


Step 6: Lay down the sixth layer (Shown in Purple)



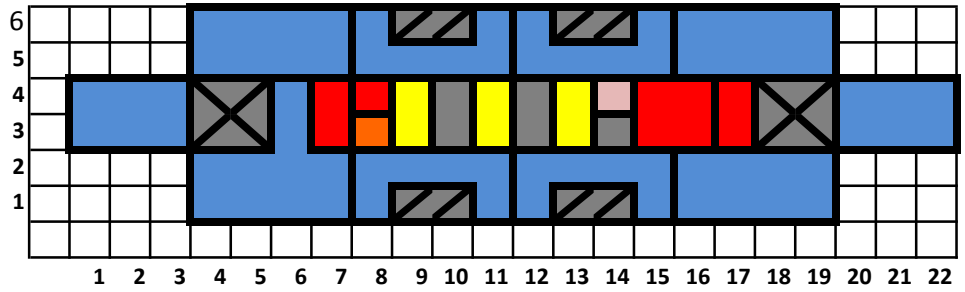
Step 7: Lay down the seventh layer (Shown in Pink)

YELLOW BRICKS (THIN)



Step 8: Lay down the eighth layer (Yellow bricks shown in Orange) (Black bricks shown in Yellow)

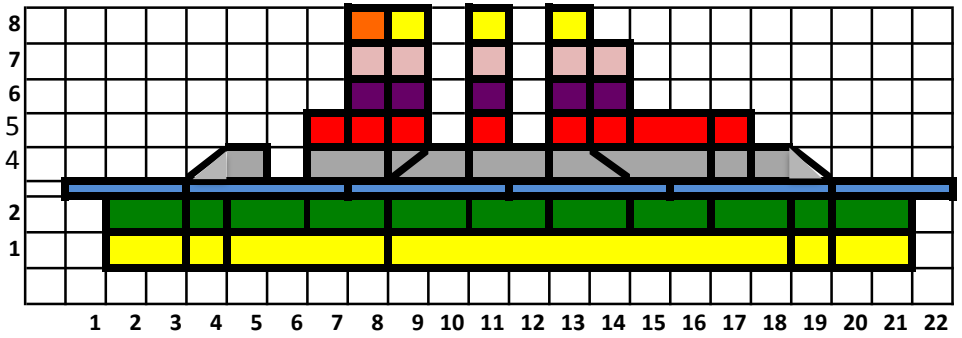
YELLOW AND BLACK BRICKS



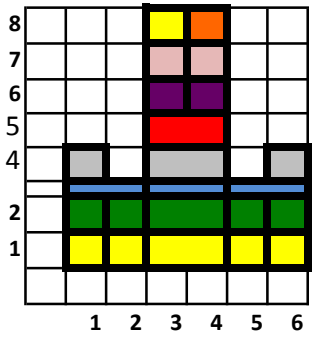
USS *Connecticut*
Final Ship Dimensions

SIDE

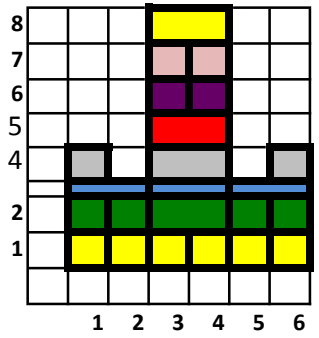
Note: Figure shown by level, not actual brick color. See Final Ship dimension.



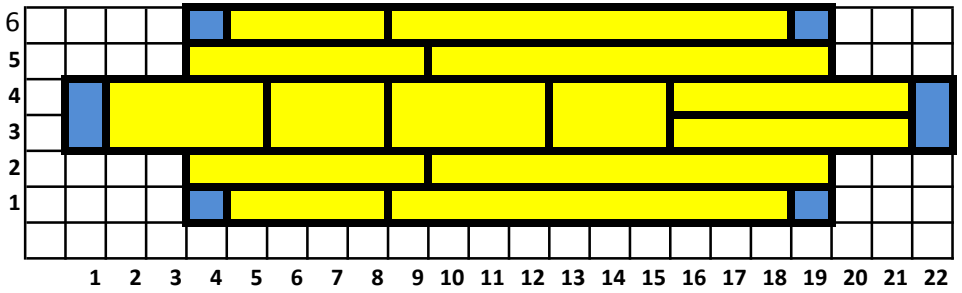
FRONT

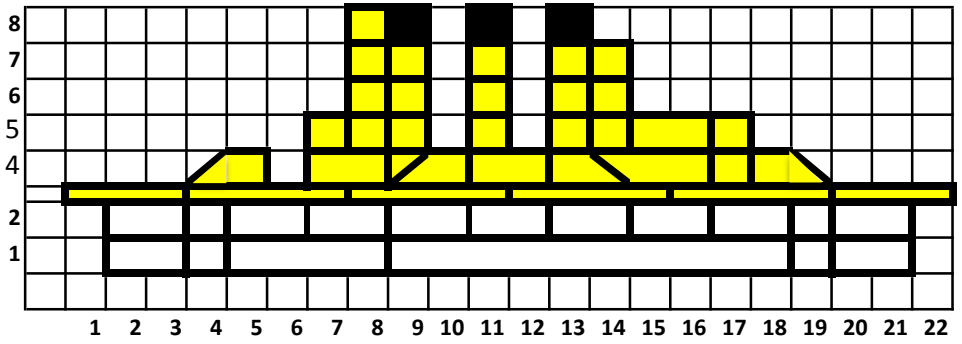


BACK



BOTTOM





Note: Figure shown by actual brick color.