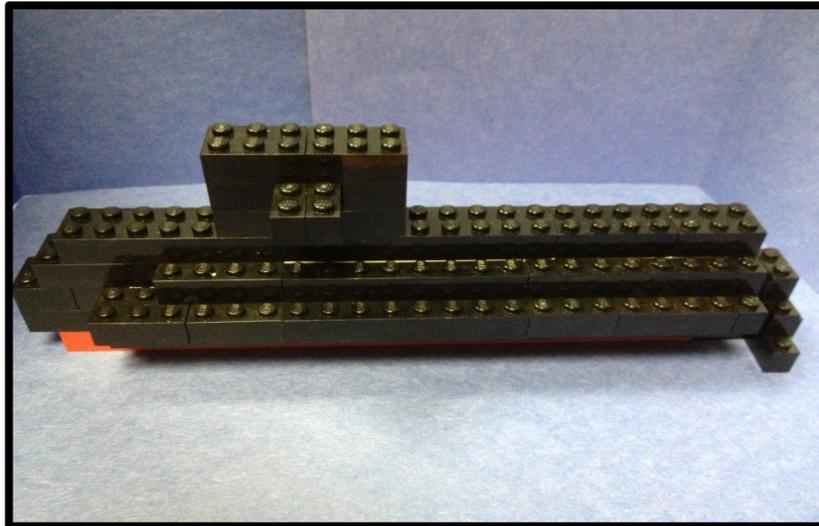
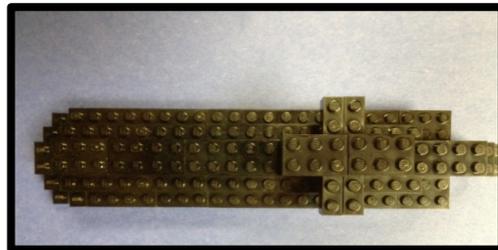


BRICK BY BRICK: LEGO® SHIPBUILDING

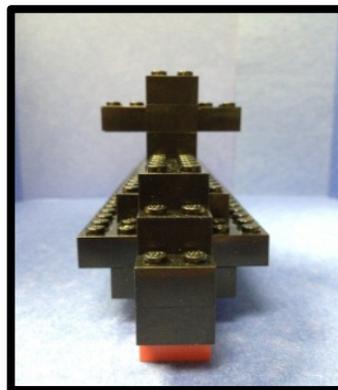
Level: Hard (USS *Norfolk*)



SIDE



TOP



FRONT

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

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.

BRICK SUPPLY LIST

BRICKS	BLACK	WHITE	RED
1x2	7	1	0
1x3	4	0	0
1x4	1	0	0
1x6	0	0	0
1x8	4	0	0
2x2	9	0	2
2x3	18	1	1
2x4	9	4	0
2x6	0	1	0
2x8	8	1	2
TOTALS	60	8	5

TOTAL BRICKS: 73

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.

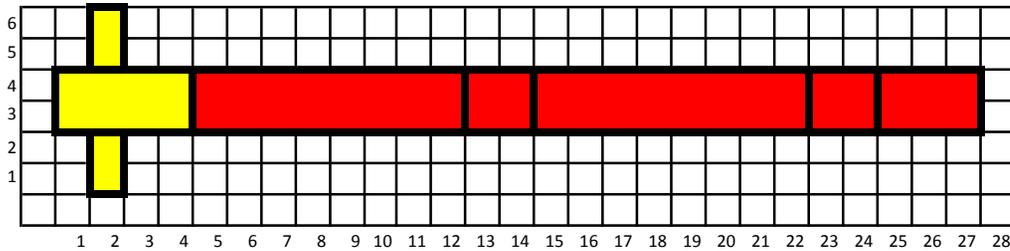
USS Norfolk

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 and Red)

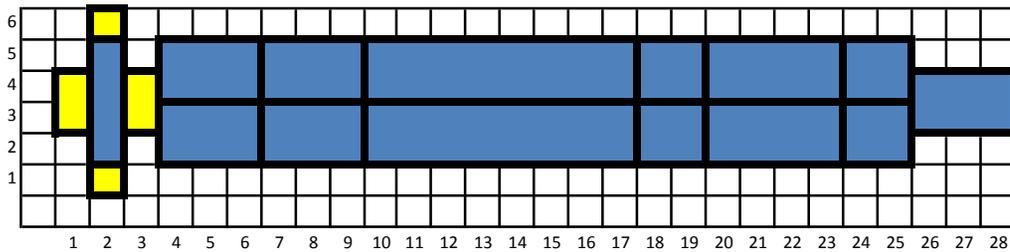
RED AND BLACK BRICKS



Note: (2 brick colors for this layer)
 Red Bricks shown in Red
 Black Bricks shown in Yellow

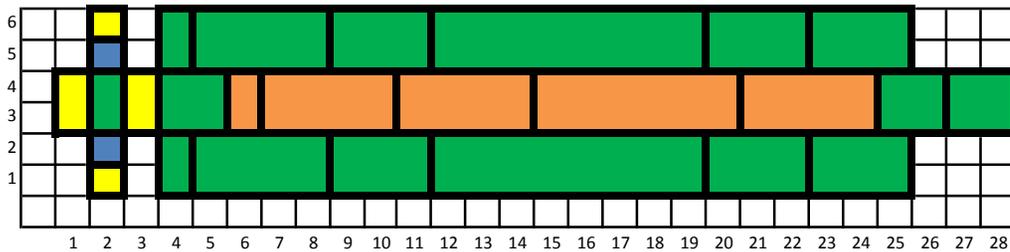
Step 2: Lay down the second layer (shown in Blue)

BLACK BRICKS



Step 3: Lay down the third layer (shown in Green and Orange)

WHITE AND BLACK BRICKS



Note: (2 brick colors for this layer)
 White Bricks shown in Orange
 Black Bricks shown in Green

Step 4: Lay down the fourth layer (shown in Red and Gray)

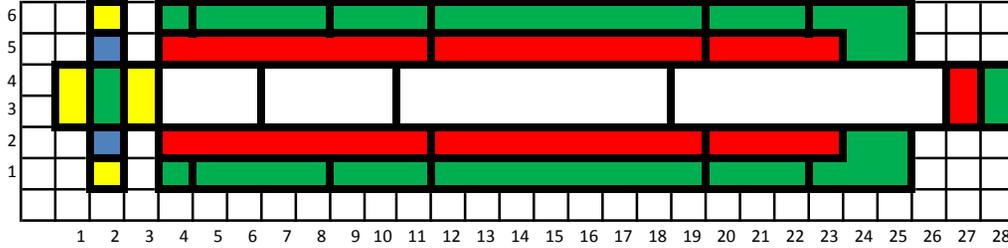
WHITE AND BLACK BRICKS



Note: (2 brick colors for this layer)
 White Bricks shown in Gray
 Black Bricks shown in Red

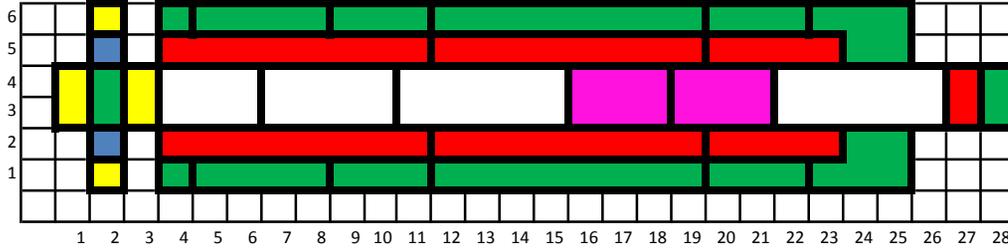
Step 5: Lay down the fifth layer (shown in White)

BLACK BRICKS



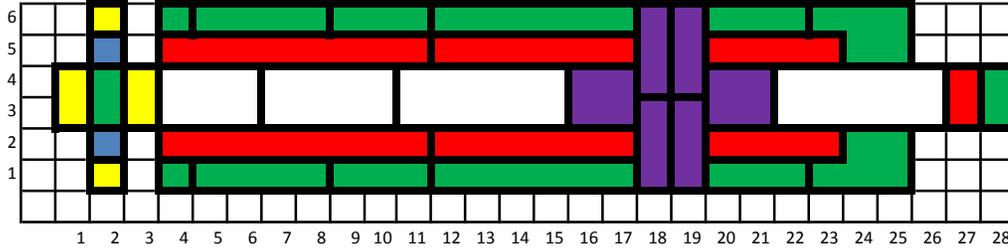
Step 6: Lay down the sixth layer (shown in Pink)

BLACK BRICKS



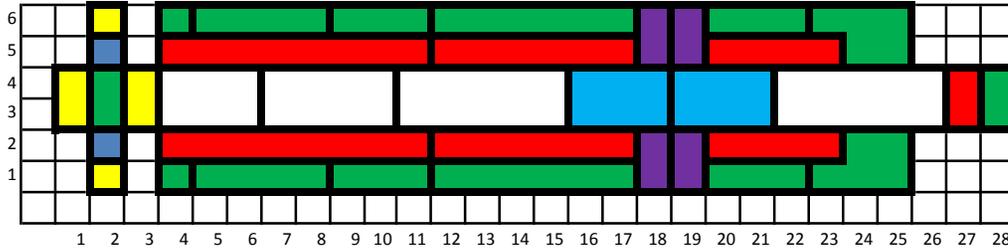
Step 7: Lay down the seventh layer (shown in Purple)

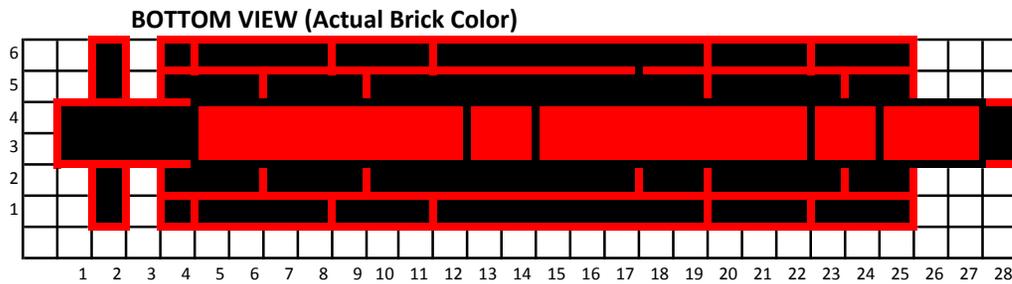
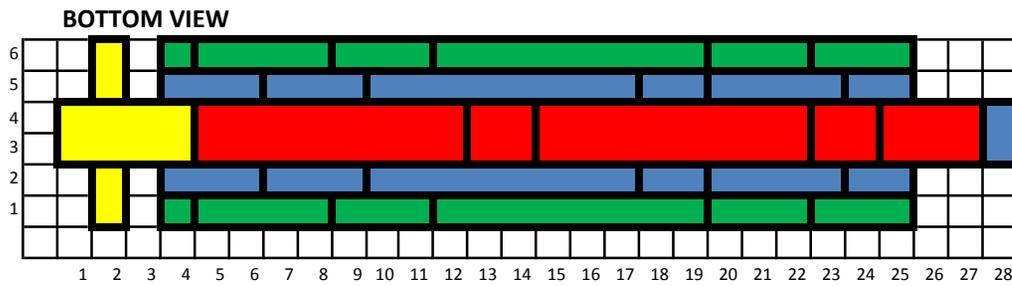
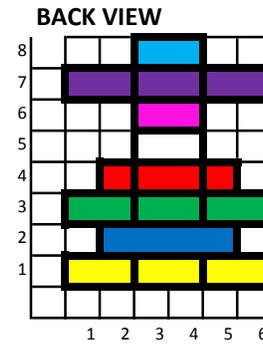
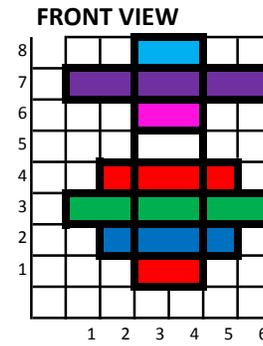
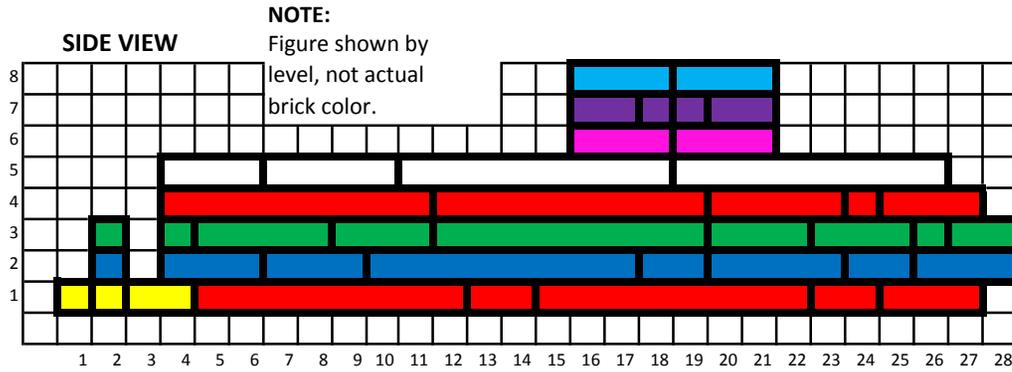
BLACK BRICKS



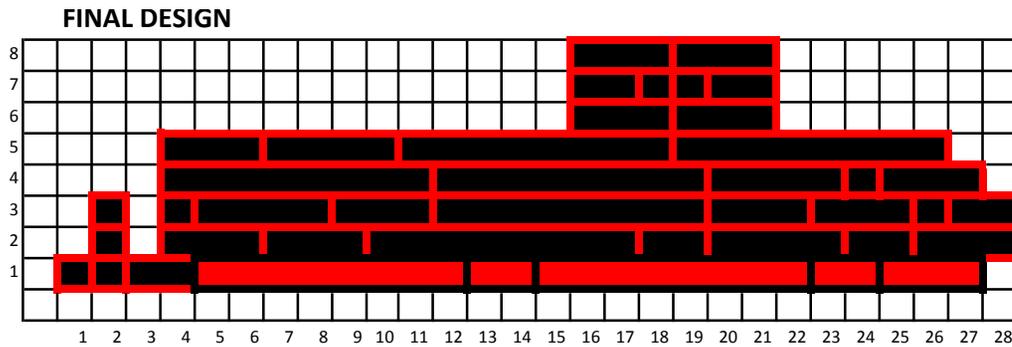
Step 8: Lay down the eighth layer (shown in Light Blue)

BLACK BRICKS





NOTE:
Black bricks are outlined in Red to distinguish brick size.



NOTE:
Ship shown in actual brick colors.