

# Making Patterns 1

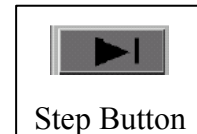
NAME \_\_\_\_\_

Visit the Making Grid Patterns web page at

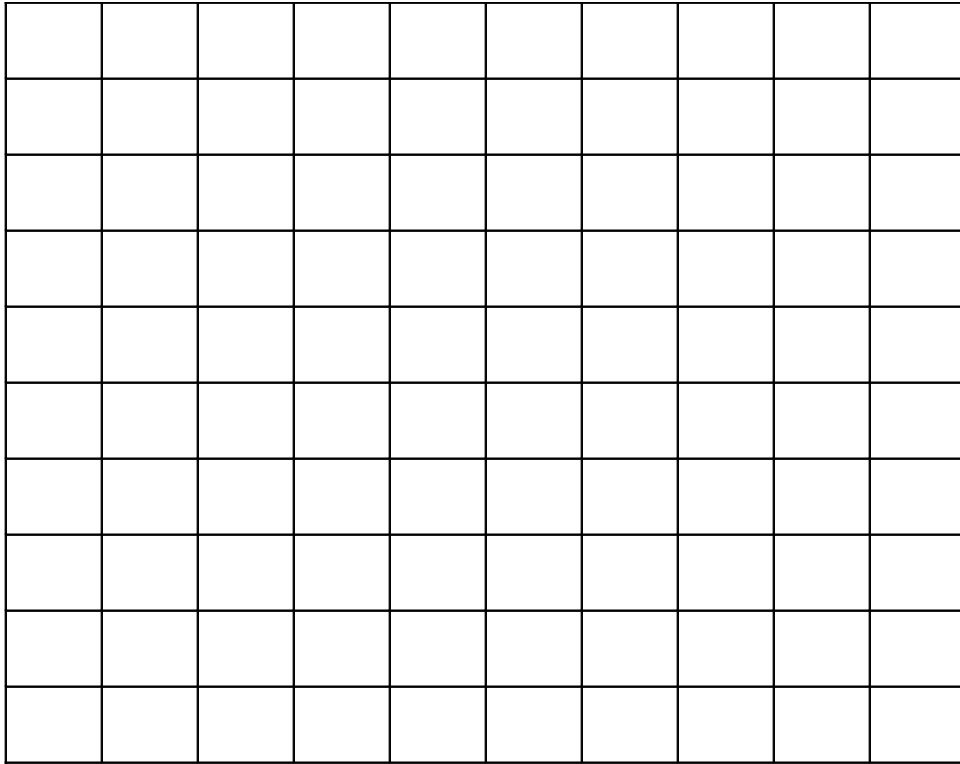
<http://standards.nctm.org/document/eexamples/chap4/4.1/standalone1.htm>.

1. Look at the red and blue pattern unit shown in the upper left corner. Predict what you think the first two rows of the grid below will look like if they are filled with this pattern. Color in the two rows on the grid below using red and blue to show your prediction.


2. When you are done coloring, click on the Step Button 10 times, until the first two rows of the grid are filled. Describe the pattern that appears on the grid.



3. Imagine that the whole grid is filled with the same red-blue pattern unit. Your team should predict what would appear when the grid is completely filled by the computer. Draw your prediction below.



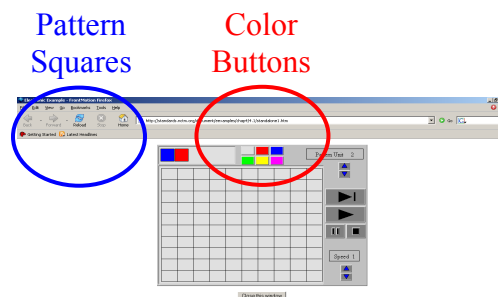
4. When you are done coloring, click on the **Play Button** to fill in the whole grid. Compare the pattern that appeared on the screen with your prediction above.



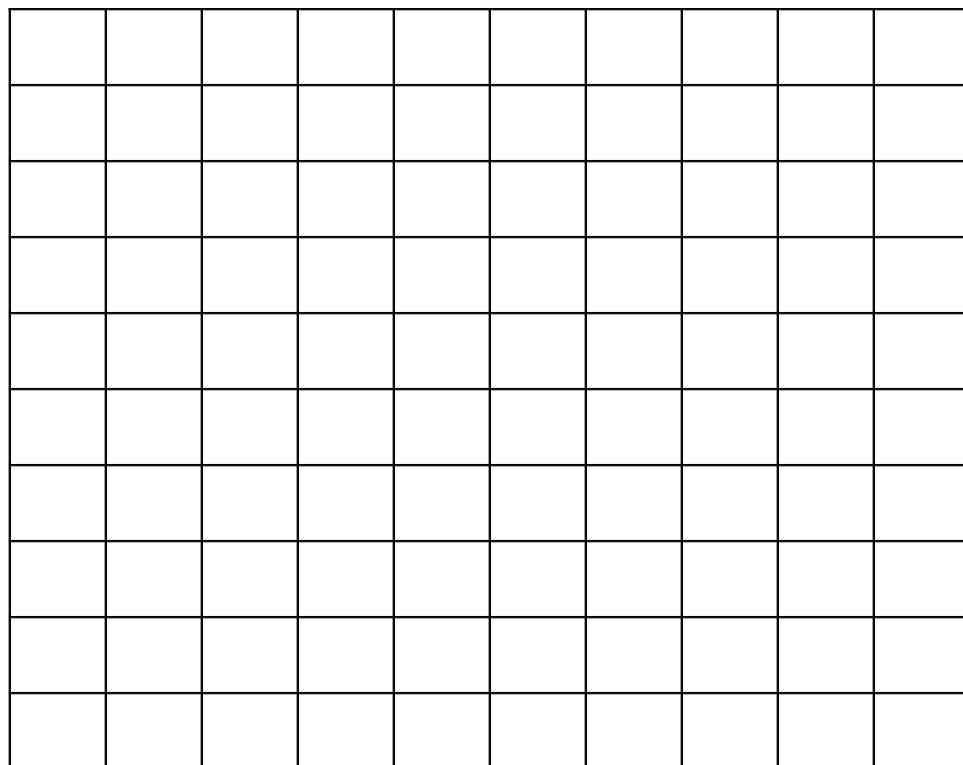
- a. How was your prediction the same or different from the online grid?

- b. Describe the rows that appeared in the pattern. Describe the columns that appeared in the pattern.

5. You can change the color of a square by clicking on one of the **Pattern Squares** at the top of the grid (on the left) and then clicking on a **Color Button** (on the right). Now, change the color of both squares in the pattern unit.



- a. Imagine that the whole grid is filled with your new colors. Your team should predict what would appear when the grid is completely filled with your two new colors. Color your prediction below.



6. When you are done coloring, click on the **Play Button** to fill in the whole grid. Compare the pattern that appeared on the screen with your prediction above.

- a. How was your prediction the same or different from the online grid?

- a. Describe the rows that appeared in the pattern. Describe the columns that appeared in the pattern.