

Name: _____
Teacher: _____

Date: _____
Period: _____

Drawing Algorithm

What is an algorithm? A series of instructions to complete a task.

Programming Key

- Move One Square Forward
- ← Move One Square Backward
- ↑ Move One Square Up
- ↓ Move One Square Down
- Fill-In Square with Color

Use the Programming Key to the left to answer the following questions.

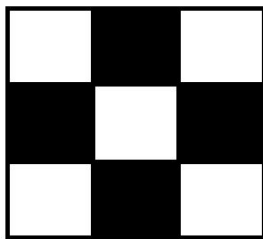
For example:

"Move one square forward, Move one square forward, Fill-in square with color,"

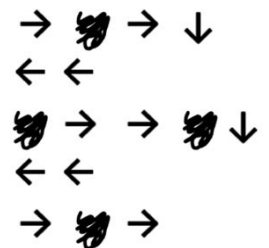
would be written as:



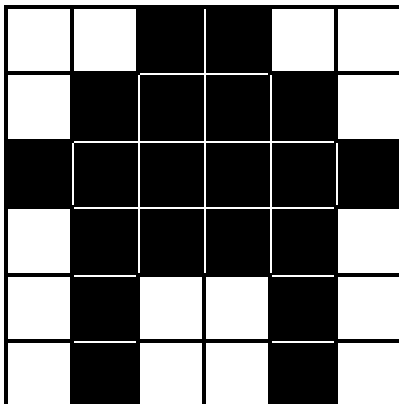
A full example is given below of an image to draw, the plain-English algorithm, and the algorithm in symbols. Note that the algorithm always starts in the upper leftmost corner.



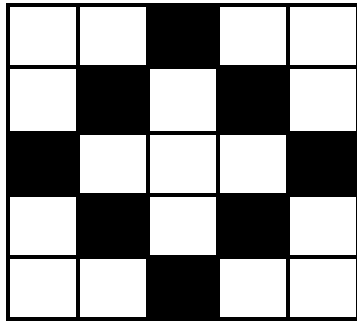
"Step forward, fill-in, step forward, next row, back, back, fill-in, step forward, step forward, fill-in, next row, back, back step forward, fill-in, step forward"



Your turn!



Write the algorithm in symbols for following drawings.



Now think about making the code a little shorter. For example, what could you replace “back, back” with?

Possibly ← 2

You can use steps like these to make the algorithm shorter so it’s easier to read.

Keep going! Now write an algorithm in symbols to draw exactly the images below:

