**Unit 3 Lesson 1**

Name(s)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  | **Activity Guide - Building Blocks of Drawing** |  |
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**Challenge:** Create instructions your classmates could use to reproduce a simple arrangement of drawn blocks. Similar to the one shown at right.

**Create Your Arrangement:** With a pen, draw a figure of variously sized rectangles (or squares) similar to the one shown at right.

**Design Your Algorithm:** As you draw think about about the fundamental operations - the most basic set of commands - you would need in order to write out a list of instructions for another person to draw it the same way you did. Your instructions may only use words, so you cannot use pictures to help you.

**Compare Your Instructions with a Neighbor’s Instructions:**

With a neighbor, compare how you each drew the shape, and compare your sets of commands to see where you have things in common.

* Where did the drawer start?
* Where did they end?
* Did they draw it the same way as you?
* Did they pick up the pen?
* How many different commands do you actually need to draw this?

## Reflection: Once you’ve had an opportunity to compare instructions with a neighbor, respond to the following reflection questions:

* How were your instructions different from your neighbor’s?
* Were your instructions as clear as you thought?