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| **Unit:** Methodology | **Turn In List:** **1. Terms** |
| *“I will vow to format code so that it is readable and easy to interpret. Good developers don’t try to hide things in source code.”* | |

**Conditions and Formatting Code: Using proper format while introducing conditions in code**

**Content Objectives:** Students will be able to identify and format code appropriately while using appropriate methods with return values.

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| **Starter Activity** |
| Students will modify etch\_a\_sketch with keyPressed and saveFrame. |
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| **Key Terms:** | |
| White Space | Sections that is unused so that things are less crowded, and more separated |
| Camel or Pascal Case | Writing compound words with the words in the middle being capitalized, and no spaces or punctuation. Camel Case (camelCase) doesn't capitalize the first letter, but Pascal Case (PascalCase) does. |
| Condition | Something that must be met, and if it is then something is executed |
| If | A conditional statement, and if it is true it will execute something |
| If else | An alternative statement for if “if” is false |
| Boolean Expression | An expression that produces a Boolean value (true or false) |
| Boolean Variable | One of two values. True or false, 0 or 1, yes or no... |

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| **Assignment:** |
| Students will explore methods with a return type. Consider the following:  C = (F – 32) \* (5 / 9)  \_\_\_\_\_\_ tempConverter(float \_\_\_\_\_\_\_\_) {  \_\_\_\_\_ \_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  }  Answer:  float celToFar(float cel) {  cel = cel\*9/5+32;  return cel;  }  float celToFar(float cel) {  cel = cel\*9/5+32;  return cel;  } |
| For this assignment students will create a conversion app that utilizes a  For this assignment students will create a conversion app that utilizes a  method with a return value and the position of the mouse or a line on the  screen controlled by the keyboard (or both). Make sure to include the  following:    Title and developer info (your name)    Onscreen instructions    Reference line or shape    Numbered increments and tic marks on screen (hint: use loop)    Updated total as the mouse moves or the arrow keys are pressed  Appropriate conversions may include any of the following:    Any distance measurement i.e. miles to km etc.    Any volume measurement    Any currency conversion    Math functions i.e. squares or squareroots    Etc. |

Notes (Points of interest, mistakes, lessons learned, web resources, and thoughts):

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