

Static Friction Combined Rubric

	Area	Expectation	✓ = 1 pt
1	Worksheet – Set up and Flowchart	Problem clearly laid out using Program Development Worksheet Goal of program presented,	
2		Inputs & Outputs for program listed (1-3). Clearly shows the two possible input sources (command line & interactive).	
3		Clear hand calculations of results that will provides test cases for all branches of the code.	
4		Flowchart(s) are used to show Program Steps (4)	
5		Clear well laid out Visio flowchart(s) are used that have a logical flow of steps on the page (e.g., main flow in one direction, branching may be lined up) (4).	
6		Flowchart(s) are complete & accurate reflecting the entire logic of the program as written (4). Must show all logic including sub-functions logic (4) – 2 pts.	
7			
8		Code for a function provided with comments including comments listing variables & units, and program logic	
9		Initial comments correctly setup to provide a logical and complete help file	
10	Program Code (5)	can reliably and accurately handle command line input	
11			
12		can reliably and accurately handle interactive input	
13			
14		.m file included with essentially correct logic for calculation	
15			
16		program completely produces the desired output from the desired inputs (5)	
17			
18	Validation (6)	Program execution included validating success with interactive input. Execution is consistent with the program code	
19		Program execution included validating success with command line input (and no interaction). Execution is consistent with the program code	
20		Program execution provided showing match to hand calculations cases include testing of all code branches.	