N-Body lab Name: _____

_____ 15 Input and Looping

     _____ 5 Reads the data file correctly

     _____ 5 Loops through all the bodies correctly

     _____ 5 Uses a nested loop to calculate the force between bodies

_____ 20 Correct computation of

     _____ 5 Net forces

     _____ 5 Accelerations

     _____ 5 Velocities

     _____ 5 Positions

_____ 25 Miscellaneous

     _____ 5 Positions are updated after all the net forces are computed

     _____ 5 Places images at correct locations

     _____ 5 Clears the screen at each iteration

     _____ 5 Plays the background music

     _____ 5 Prints the final state of the universe

_____ 10 Documentation

     _____ 5 `readme.txt`

     _____ 5 Comments, meaningful variable names, appropriate indentation, etc.

_____ 5 Extra Credit

     _____ 5 Your own universe data file, resources, etc. appropriate indentation, etc.

_____ **TOTAL**