

Mass analysis (20 pts)

Data table - 2 pts

Graph of gravitational mass vs. inertial mass - 3 pts

Axes labels and units - 1 pt

Regression line - 1 pt

Slope - 1 pt

5a. Gravitational mass - 1 pt

5b. Inertial mass - 1 pt

5c. Gravitational mass – 1 pt

5d. Inertial mass – 1 pt

5e. They are equal - 1 pt

5f. A slope of one - 1 pt

5g. An error making the inertial mass greater than the gravitational mass (For example, stopping the timer too slowly) - 1 pt

5h. An error making the gravitational mass greater than the inertial mass (For example, having the pan balance read a positive mass when nothing is on the balance) - 1 pt

5i. Gravitational mass - 1 pt

5j. Astronauts use a spring system called SLAMMD which measures their inertial mass - 2 pts

5k. They cannot measure their gravitational mass because they are in freefall – 1 pt