Section I Definitions - Physics

ACROSS
3 the total net change in position
8 the rate at which velocity changes for a given interval of time
11 a collision in which kinetic energy is conserved
14 \((L = mvr)\): the measure of how hard it is to stop an object that is rotating
15 specific statements that describe the relationships between 2 properties or concepts
20 the energy of motion
21 the mutual attraction between any two objects with mass
23 a measure of how fast work is being done
24 total quantity divided by the total elapsed time
27 general statements that describe the relationships between 2 properties or concepts
28 a collision in which kinetic energy is NOT conserved
29 a coordinate system that is considered stationary with respect to the object that is in motion
30 nearness of data to a target value
31 net displacement divided by time
32 a measure of an objects inertia

DOWN
1 nearness of data to other data points
2 a region of influence over which an action-at-a-distance force acts
4 the energy of position
5 a visual representation of the relationships between quantities
6 a quantity with magnitude only
7 refers to the location of an object
9 the actual, total path length traveled
10 a quantity with magnitude and direction
12 the ability to do work
13 object that stands for or represents a very specific property or concept
16 provide a reference point to which all like measurements can be compared
17 value of a quantity at a specific instant in time
18 \((p = mv)\): the measure of how hard it is to stop an object moving in a straight line
19 the magnitude of a constant net force times the distance the object has moved
22 a push or pull
23 The study of matter and energy and the relationships between them
25 total distance divided by time
26 the continuous change in position of an object during a given amount of time
28 the natural tendency of an object to remain at rest or in uniform motion