

COMPUTER LAB 2

Log-in & Start

1. Double click on the internet browser to start.
2. Point your browser to :
 <http://www.glenbrook.k12.il.us/gbssci/phys/phys.html>
3. Click on **Physics Classroom** link.
4. Once in the classroom, click on each subject link.
5. Follow the instructions in each lesson given below.

Momentum and Its Conservation

Lesson 1

1. Momentum can be defined as “ _____ ”.
2. What two quantities is momentum dependent upon:
 _____ and _____
3. Complete Test Your Understanding 1 and 2, and enter your score below:

Score : _____/2

4. What is impulse?
5. What is the relation of impulse to momentum? (write the equation)
6. Complete the table below, and enter your score:

Force (N)	Time (sec)	Impulse (Ns)	Momentum (kgm/s)	Mass kg	Velocity (m/s)
	0.010			10	-4
	0.100	-40		10	
	0.010		-200	50	
-20000			-200		-8
-200	1.0			50	

Score : _____/15

7. Describe two “real world” applications of the momentum-impulse relationship.

Lesson 2

1. Complete the following:

For a collision between object 1 and object 2 in _____,
the _____ of the two objects before collision is equal to
the _____ of the two objects after collision. That is,
_____.

2. Describe how the “money analogy” is related to the conservation of momentum principle.

Work, Energy, Power

Lesson 1

1. Complete the following:

In physics, work is defined as a _____ acting upon an object to _____
a _____.

2. Give two examples of work as defined above.

