Physical Science Physics Final study guide 2015	Date
Ms. Toal	Period
	Name
1. MOTION and SPEED - STUDY ALL SPEED WORKSHEE	TS AND LABS***
a. Know reference point/frame of reference	
b . Speed triangle - be able to calculate speed, distan	ice and time.
c. How long? units =	6.10
*How far? units = *Hov	
d. Velocity =	•
e. Average speed - on a graph and given word problem	
f. Speed graph problems, acceleration and speed gra	ipn trends
g. Interpret graphs for speed and acceleration	
2. FORCES - Be able to calculate net force, and dire	ction of force by looking at a diagram
$ \begin{array}{c c} \hline 5N \\ \hline 3N \end{array} $	4 6N
Be able to do a Spring scale conversion: if 1 cm=6	N, then 4 cm=N, 2.5 cm=N
a. Balanced forces:	
b. Elastic forces?	
c. know the forces notes	
a. same direction,opposite direction,opposite direction	_
direction of gravity, net force, normal force, frict 2. NEWTON'S LAWS	nonal force of a car on a ramp
a. 1 st law: (;	The more
an object has, the more	
b. 2 nd law: ()	
c . 3 rd law: ()	
d. Know units for Mass = accelera	ation = force =
3. VOCABULARY - Reference point, speed, constant sp	
acceleration, Newton, Inertia, Force (and all the typ	·
unbalanced force, tension, compression, gravity, weig	
universal law of gravitation,	, , , ,
4. Momentum- formula	
a. Transferred, lost, or gained?	7.1
5. Potential and Kinetic Energy	Labs to know:
a. Potential energy:	
b . Kinetic energy:	
6. ElectroMagnetic Spectrum	
a. 7 parts of EM Spectrum:	
b. Uses of EM Spectrum:	
c. Know photon and speed of light:	
d. Vacuum, Transverse Wave, compressional wave,	
e. Wavelength, amplitude, crest, trough (definition a	and diagram)