

## AP Physics C Homework Planner

Spring Semester

HW Set	Chapter	Topic	Reading	Page	Problems	AP Problems
1	15	Simple Harmonic Motion	15-1 thru 15-7 Eqns: [15-1, 15-2, 15-3, 15-5, 15-6, 15-7, 15-8, 15-12, 15-13, 15-28, 15-29]	405-409	1, 3, 5, 7, 9, 25, 27	893 (SHM) LewTube 032 (SHM) 002 (Write DEQ, Terminal Velocity) LewTube
2	10	Rotational Kinematics Model	10-1 thru 10-5 Eqns: [10-1, 10-6, 10-8, 10-10, 10-17, 10-18, 10-19, 10-33, 10-34, 10-35, 10-36]	266 267	9, 11, 13, 17 20, 21, 23, 27 P. 409 #69	972 (COM) 061 (Force, COM) 083 (Spring)
3	10	Torque Model	10-8 thru 10-10 Eqns: [10-39, 10-44, 10-45, 10-52, 10-53, 10-54, 10-55]	269 271	45, 47, 49, 51, 55 59, 63, 69, 73 P. 410 #77	903 (SHM) 042 (Torque) 051 (Write DEQ)
4	11	Rolling Motion	11-1 thru 11-5 Eqns: [11-2, 11-3, 11-5, 11-14]	297	2, 3, 5, 8, 9, 11 P. 409 #79 & #107	971 (Work) 913 (Spring) 062 (Work) 991 (DEQ SepVars)
5	10 11	Rotational Energy Bucket Model	None	270-271 297-298	66, 79, 81, 93 13, 14	022 (Energy) 033 (Energy   Catapult) 081 (DEQ USub)
6	13	Gravitation Newton's Universal Law of Gravitation	13-1 thru 13-4 Eqns: [13-1, 13-5, 13-11]	351	1, 5, 13, 17, 19	901 (DEQ SepVars) 961 (Gravitation) 942 (Energy) 021 (DEQ USub)
7	13	Gravitation Conservation of Energy and Conservation of Momentum Laws	13-5 thru 13-8 Eqns: [13-21, 13-22, 13-34]	354 358	37, 39, 41, 43 49, 81, 95, 97	923 (Gravitation) 013 (Energy) 052 (Gravitation) 883 (Energy)
8	11	Angular Momentum Model	11-7 thru 11-11 Eqns: [11-18, 11-23, 11-26, 11-29, 11-31, 11-33]	299	27, 28, 31 (discrete objects) 37, 39, 41 (solid bodies)	043 (Inertia) 963 (Rotational Inertia) 943 (Work Gravitation) 001 (SHM) 103 (Work, Impulse, Integration)
9	11	Rotational Momentum Bucket Model (Angular Momentum)	None	300	43, 45, 47, 51 55, 57, 66, 67	932 (DEQ USub) 992 (Integration, Work, SHM, Gravitation) 982 (Angular Momentum) 073 (Energy)
10	11	More Angular Momentum	None	-	-	922 (Angular Momentum) 892 (Angular Momentum) 082 (Force/Torque) 092 (Angular Momentum, DEQ) 093 (COE, Work Integral)