

CH 7: KE and Work

Chapter Homework: Problems 15, 22, 24, 31

Day	Topics	Section Homework	Pre-Reading
0			Sec. 7.1-7.4 Pg. 141-143 (5 min)
1	What is Energy? Kinetic Energy Work	Q: 1 P: 1 [1.82×10^{13} J] 2 [-4.50×10^{14} J, 0.107 Mton TNT, 8.23] 5 [2.41 m/s, 4.82 m/s]	Sec. 7.5 Pg. 143-146 (15 min)
2	Work and Kinetic Energy	Q: 2 P: 8 [4950 J] 9 [0.96 J] 13 [1.5 J, increases]	Sec. 7.6 Pg. 146-149 (20 min)
3	Work done by the Gravitational Force	Q: 5 P: 16 [36000 J, 200 J] 18 [1.31 J, 0.935 m/s] 21 [25 J]	Sec. 7.7 Pg. 149-152 (10 min)
4	Work Done by a Spring Force	Q: 8 P: 25 [± 0.049 m] 27 [15.6 J, 15.6 J, 0 J, -14.4 J] 29 [6.56 m/s, 4.69 m]	Sec. 7.8 Pg. 152-155 (15 min)
5	EPIPHANY TEST (ch. 1-6)		
6	Work Done by a General Variable Force	Q: 6, 10 P: 32 [25 J] 35 [528 J] 36 [2.33 J, 2.64 J]	Sec. 7.9 Pg. 155-157 (10 min)
7	Power	P: 42 [900 J, 112.5 W, 225 W] 44 [28 W, 6 m/s] 46 [zero, 354 W]	
8	Work Day		
9	MiniLab: Hooke's Law – spring constants (springs in series & parallel)		
10	Test		