

## 30 Week Syllabus . Physics

### Physics Matters

Week #	Lesson #	Topic	Assign #	Day	Assignment
1	1.1	What is physics?	1	Tuesday	Text - Read pgs. 3 - 12/Worksheet 1A/Practical book - pgs. 4, 6, and 11
	1.2	Physical quantities and SI units	2	Wednesday	Text - Read pgs. 13 - 16/Worksheet 1B/Practical book - pgs. 18 - 20
	1.3	Measurement of Length	3	Thursday	Practical book - pgs. 21 - 33
	1.4	Measurement of Time	4	Friday	Experiment #1 & 3/Challenge - Textbook - pg. 17; B3
2	2.1	Distance, Time and Speed	5	Tuesday	Text - Read pgs. 20 - 27/Worksheet 2A
	2.2	Speed, Velocity and acceleration	6	Wednesday	Text - Read pgs. 28 - 43/Worksheet 2B
	2.3	Speed - Time Graphs	7	Thursday	Worksheet 2C
	2.4	Acceleration of Free Fall	8	Friday	Experiment #5
3	3.1	Forces	9	Tuesday	Text - Read pgs. 46 - 58/Worksheet 3A
	3.2	Scalars and Vectors	10	Wednesday	Text - Read pgs. 59 - 64/Worksheet 3B
	3.3	Forces and Motion	11	Thursday	
	3.4	Friction and It's Effects	12	Friday	Experiment #6
4	4.1	Mass and Weight	13	Tuesday	Text - Read pgs. 67 - 73 /Worksheet 4A
	4.2	Inertia	14	Wednesday	Text - Read pgs. 74 - 80 /Worksheet 4B
	4.3	Density	15	Thursday	Worksheet 4C
			16	Friday	Experiments # 2 & 4
5	5.1	Moments	17	Tuesday	Text - Read pgs. 82 - 90/Worksheet 5A
	5.2	Principle of Moments	18	Wednesday	Text - Read pgs. 90 - 98/Worksheet 5B
	5.3	Center or Gravity	19	Thursday	Worksheet 5C
	5.4	Stability	20	Friday	Experiment #7/Activity #1
6	6.1	Energy	21	Tuesday	Text - Read pgs. 102 - 108/Worksheet 6A
	6.2	Work	22	Wednesday	Text - Read pgs. 109 - 118/Worksheet 6B
	6.3	Power	23	Thursday	Worksheet 6C
			24	Friday	Experiments #8 & 9





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19	15.3	Reflection of sound	73	Tuesday	Text - Read pgs. 300 - 302/Worksheet 15B
	15.4	Ultrasound	74	Wednesday	Text - Read pgs. 303 - 308/Worksheet 15C
	15.5	Pitch and loudness	75	Thursday	Worksheet 15D
			76	Friday	TEST #3
20	16.1	Electrostatics	77	Tuesday	Text - Read pgs. 313 - 321
	16.2	Insulators and Conductors	78	Wednesday	Worksheet 16A
	16.3	Electric Field	79	Thursday	Text - Read pgs. 322 - 327
	16.4	Hazards and App. of Electrostatics	80	Friday	Worksheet 16B
21	17.1	Electric Current	81	Tuesday	Text - Read pgs. 330 - 339/Worksheet 17A
	17.2	Electromotive Force/Potential Difference	82	Wednesday	Text - Read pgs. 339 - 346/Worksheet 17B
	17.3	Resistance	83	Thursday	Worksheet 17C
	17.4	Resistivity	84	Friday	Experiments #28
22	18.1	Series Circuits	85	Tuesday	Text - Read pgs. 350 - 360
	18.2	Parallel Circuits	86	Wednesday	Worksheet 18A
	18.3	Resistors in Series and Parallel	87	Thursday	
			88	Friday	Experiment #29
23	18.4	Potential Divider	89	Tuesday	Text - Read pgs. 361 - 366
	18.5	Transducers	90	Wednesday	Worksheet 18B
			91	Thursday	
			92	Friday	Experiment #30
24	19.1	Uses of electricity	93	Tuesday	Text - Read pgs. 371 - 379/Worksheet 19A
	19.2	Measuring Electrical energy	94	Wednesday	Text - Read pgs. 380 - 389/Worksheet 19B
	19.3	Dangers of electricity	95	Thursday	Worksheet 19C
	19.4	Safe use of electricity at home	96	Friday	

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25	20.1	Magnets and materials	97	Tuesday	Text - Read pgs. 393 - 399
	20.2	Magnetic induction	98	Wednesday	Worksheet 20A
			99	Thursday	
			100	Friday	Experiment #31
26	20.3	Magnetization and demagnetization	101	Tuesday	Text - Read pgs. 400 - 406/Worksheet 20B
	20.4	Magnetic fields	102	Wednesday	Text - Read pgs. 407 - 409
	20.5	Temporary and permanent magnets	103	Thursday	Worksheet 20C
			104	Friday	Experiment #33 & 35
27	21.1	Magnetic effect of a current	105	Tuesday	Text - Read pgs. 413 - 426/Worksheet 21A
	21.2	Force on current carrying conductors	106	Wednesday	Text - Read pgs. 426 - 428
	21.3	Forces on a current/rectangular coil	107	Thursday	Worksheet 21B
			108	Friday	Final Project
28	22.1	Electromagnetic induction	109	Tuesday	Text - Read pgs. 432 - 441/Worksheet 22A
	22.2	Alternating current generators	110	Wednesday	Text - Read pgs. 441 - 447
	22.3	transformers	111	Thursday	Worksheet 22B
			112	Friday	Final Project
29	22.4	Converting A.C. To D.C.	113	Tuesday	Text - Read pgs. 448 -453
	22.5	Cathode Ray Oscilloscope	114	Wednesday	Worksheet 22C
			115	Thursday	Worksheet 22D
			116	Friday	TEST #4
30		FINAL PROJECT	117		