

AP Physics Summer Work 2016

1. Read Chapter 1

Complete Questions #1-10
Problems # 1-5, 8-9, 12-15, 17, 19, 23, 34, 49

2. Learn Greek Alphabet (whole alphabet)

The Greek Alphabet

Form	Name	Latin	Sound
A α	alpha	A a	drama
B β	beta	B b	bible
Γ γ	gamma	G g, ng	ganglion
Δ δ	delta	D d	decalog
E ε	epsilon	E e	epic
Z ζ	zeta	Z z	adze
H η	eta	E e	they
Θ θ	theta	Th th	atheist
I ι	iota	I i	intrigue
K κ	kappa	K k, C c	crisis
Λ λ	lambda	L l	logic
M μ	mu	M m	meter
N ν	nu	N n	anti
Ξ ξ	xi	X x	axiom
O ο	omicron	O o	obey
Π π	pi	P p	poet
R ρ	rho	Rh rh, r	catarrh
Σ σ	sigma	S s	spore
T τ	tau	T t	tone
Υ υ	upsilon	Y y, u	abyss
Φ φ	phi	Ph ph	Philip
Χ χ	chi	Ch ch	character
Ψ ψ	psi	Ps ps	apse
Ω ω	omega	O o	ocean

Examples taken from:
Crosby and Schaeffer, *An Introduction to Greek*,
Allyn and Bacon, Boston 1928

3. Learn metric Prefixes

TABLE 2.2 Some Prefixes for Multiples of Metric and SI Units

PREFIX	SYMBOL	BASE UNIT MULTIPLIED BY*	EXAMPLE
mega	M	$1,000,000 = 10^6$	1 megameter (Mm) = 10^6 m
kilo	k	$1000 = 10^3$	1 kilogram (kg) = 10^3 g
hecto	h	$100 = 10^2$	1 hectogram (hg) = 100 g
deka	da	$10 = 10^1$	1 dekaliter (daL) = 10 L
deci	d	$0.1 = 10^{-1}$	1 deciliter (dL) = 0.1 L
centi	c	$0.01 = 10^{-2}$	1 centimeter (cm) = 0.01 cm
milli	m	$0.001 = 10^{-3}$	1 milligram (mg) = 0.001 g
micro	μ	$0.000\ 001 = 10^{-6}$	1 micrometer (μ m) = 10^{-6} m
nano	n	$0.000\ 000\ 001 = 10^{-9}$	1 nanogram (ng) = 10^{-9} g
pico	p	$0.000\ 000\ 000\ 001 = 10^{-12}$	1 picogram (pg) = 10^{-12} g
femto	f	$0.000\ 000\ 000\ 000\ 001 = 10^{-15}$	1 femtogram = 10^{-15} g

*The scientific notation method of writing large and small numbers (for example, 10^6 for 1,000,000) is explained in Section 2.5.