

**Essential ideas in the microscopic world: energy is quantized**

**Subatomic world**

- Describe energy and atomic energy levels
- Describe Bohr's atomic model

**Fundamental forces and their properties**

**Applications and skills**

- Describing the emission and absorption spectrum of various gases
- Solving problems involving atomic spectra, including the relative frequency of photons emitted during atomic transitions
- Using half-life equations for alpha and beta decay

- Radioactive decay
- Half-life
- Alpha particles
- Beta particles
- Gamma rays
- Characteristics of decay particles

- Alpha particles, beta particles and gamma rays
- Characteristics of decay particles

**Exercises**

- Students are required to solve subatomic decay problems with half-integral number of half-lives
- Students expected to outline emission and absorption in the decay systems

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**PARTICLES**



Increasing mass →

	u	c	t	γ
quarks	d	s	b	g
	$V_u$	$V_d$	$V_s$	Z
leptons	e	$\mu$	$\tau$	$W^+$

	u	c	t	g	H
quarks	d	s	b	γ	gluon
	G	U	T	Z	Z boson
leptons	e	μ	τ	W	W boson

**Matter is made of fermions:**  
 electrons, neutrons, and  
 Antimatter (q-made of anti-particles with opposite charge:  
 electrical  
 charge color  
 charge flavor  
 charge and opposite lepton/aryon number.

Only gravity and no have infinite range. The weak and strong forces

Massless, spin-one bosons  
 carry electromagnetic weak or gluon force

# Relations Of Particles Lecture Notes In Physics

**L Cohen**



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