**Unit C Study Guide**

**Chapter Nine: Disease**

* + Communicable
		- Airborne
		- Water-borne
		- Carried in Food
		- Direct Contact
	+ Non-communicable
		- Bad environmental conditions
		- Poor diets
		- Unhealthy lifestyle
		- Genetics
* Microbes
* Pathogens:
	+ Bacteria
		- Conditions for reproduction
		- Antibiotics will help cure this
	+ Virus
	+ Fungi
	+ Protist
* Food Preservation
	+ Smoking or drying food
	+ Canning
	+ Salting
	+ Refrigeration
	+ Freezing
	+ Chemical additives
	+ Vacuum packaging
	+ Irradiation
	+ Pasteurization
* Keeping healthy
	+ Sterilization
	+ Aseptic
	+ Sanitary

**Chapter Ten: Society’s Response to Disease**

* Pandemic
	+ Bubonic Plague
	+ Spanish Flu
	+ AIDS
* Epidemic
	+ Tuberculosis
* Improving Human Health
	+ Public Health
		- Water Quality
		- Removal of Garbage
		- Treatment of Human and Animal Wastes
		- Air Quality
		- Mass Vaccinations
		- Food Safety

**Chapter Eleven: Protecting Yourself From Disease**

* Defense against Pathogens
	+ First Line of Defense- physical defenses
	+ Second Line of Defense- inflammatory response
	+ Third Line of Defense- immune response (macrophages, t-cells, b-cells, antigens, antibodies) *see pg.198*
* Immunity:
	+ Inherited- get from parents
	+ Acquired- develop over lifetime
		- Active- body makes own antibodies
			* Natural- get sick
			* Artificial- vaccine
		- Passive- antibodies introduced to body
			* Natural- breast milk
			* Artificial- antitoxin
* Vaccines/ Immunization

**Chapter Twelve: Genetics and Health**

* Genetics
* Hierarchy of body: (smallest to largest)
	+ Base pairs- Genes- Chromosomes- DNA strand- Cell- Body
* Heredity (passing on from parents to offspring)
* Purebred
* Hybrid
* Dominant vs recessive
* Genotype: combination of genes (BB, Bb, bb)
* Punnett Squares
* Pedigrees
* Mutation
	+ Caused by mutagen (environment)
	+ Caused by genetics
* Genetic disorder
* Genetic engineering
* Concerns about genetic research