Fundamentals Quarter 4 Study Guide

* Blood Pressure
	+ Where is it measured?
	+ What is systolic and diastolic?
* Natural openings in our body
	+ Where can pathogens enter?
* Viruses
	+ What do they do in our cells?
	+ What types of diseases can they cause?
	+ What is a pathogen?
	+ What cells remember a virus to fight off in the future?
	+ What is our largest non-specific defense barrier?
	+ What is a vaccination?
	+ Do antibiotics work on viruses? Why or why not?
	+ What are the differences between viruses and bacteria?
* Blood types
	+ What are the four blood types?
	+ Who can donate to who?
	+ Universal Donor? Universal Recipient?
* What are histamines? What medication is used to treat the effects of histamines?
* What is an autoimmune disease? Give some examples
* Label a diagram of the digestive system
	+ Know the pathway that food takes through the digestive tract
	+ Where are nutrients absorbed into the bloodstream?
	+ Where is water absorbed?
	+ What organs are involved in the digestive system but food does not pass through?
	+ Where does food spend most of its time?
* Where does cellular respiration happen?
	+ What does it produce?
	+ Know the equations for cellular respiration and photosynthesis
* DNA
	+ Shape of the molecule
	+ Mutations
	+ Nitrogen bases
	+ DNA code produces what in the end?
	+ What is a codon?
	+ Be able to match up sample DNA strand with their complimentary bases
	+ Replication, Transcription, Translation
	+ What parts make up proteins?
	+ What are the differences between DNA and RNA?
* Genetics
	+ What is a genotype? Phenotype?
	+ What is homozygous dominant? Homozygous recessive? Heterozygous?
	+ Be able to interpret and set up punnett squares
	+ Sex chromosomes for male and female?