-Review the scientific process/experimental design, positive and negative controls, sample size, repeated trials etc
-Know the 3 subatomic particles and their charges
-know the 3 different types of chemical bonds
-What is pH and how does it work?
-Definition of organic
-What are the 3 classes of organic macromolecules, what are they made of and what are their respective functions?
-Diffusion and osmosis:
Understand the details of how gradients drive these passive transport mechanisms.
Review the structure of eukaryotic and prokaryotic cells. Know the structure and function of all the organelles.
Know the names of the cells of the various human systems. For example, neurons are the cells of The nervous system etc.
Know the directional terms/posterior, anterior, distal., proximal

Respiration:
Know the 3 parts, glycolysis, Krebs cycle and electron transport.
Know what is produced and used in each step and where it occurs
Know the major organelles of a human cell and their functions
What are enzymes, what do they do and what are they made of?
Know the different types of connective tissue and their functions
What is epithelial tissue?
Know what all of the major organ systems do in general
Model for muscle contraction:
Know the name of the unit of contraction
Know the major muscles, where they are and what they do.
Know the major bones in the pelvic and pectoral girdles: the femur, fibula, tibia, phalanges, coxal bone, clavicle, scapula, humerus, ulna, radius etc
Review diagram of the human skeleton

The digestive system:
Know the major functions of all the organs of this system INCLUDING the accessory organs (pancreas, gallbladder, liver).
How is blood recycled relative to the digestive system?
What are the components of a healthy diet?

Skeletal system:
-learn all the major bones in the human body (make sure you know all of the skull bones)
-review the structure of bones, dense vs spongy bone, haverisan channels etc
-calcium cycling and the names of the cells that deposit and release minerals in the skeleton
-blood cell formation and how it relates to the human bones
The Muscular System:
- learn the major muscles
- review the sliding filament model and the structure of sarcomeres

Blood:
Know the functions of blood, where blood cells come from, what different types of blood cells exist and what they are called. Platelets, Red blood cells (erythrocytes), White Blood cells (leukocytes)
Review how blood cells carry oxygen.
ABO blood types; antibodies, antigens and compatibility
Rh factor
Review the process of red blood cell differentiation
What is anemia and what are the various causes?