Human Body  
BLOCK 1 2014-2015

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| What we KNOW… | What we WANT to know… | What we will LEARN… |
| * Your parents pass down genes and that’s why you look like you do. * The respiratory system helps you breathe.   + Lungs help us breathe. * The digestive system helps you digest food and GET IT OUT OF YOUR BODY. * Bodies are made out of molecules and cells. * You have 206 bones in your body. * Our whole body works together to keep us stable and alive. * Bladder helps waste. * People grow by mitosis. * Red blood cells carry nutrients and white blood cells work with your immune system. * After 120 days, your cells on your head die and push out to your hair (that’s what hair is). * Humans are made up of ¾ water. * The pancreas is a part of the digestive system. It looks like corn and makes insulin for your body. * If your blood sugar gets too high or low, you could go into a coma and die. * Blood sugar has to be stable. | * How many bones are in your body? * How does the digestive system work? * How does hair change color as people age? * How does hair come out of pores on your body? * Why does your hair never stop growing (especially after haircuts)?   + How does hair grow?   + WHERE does it grow? * How does acid reflux work? What causes it? * How does an ingrown toenail occur? * How do fingernails and toenails grow? * How many pies can a person eat in a lifetime? … at a time without getting sick? * More about organs… * If everyone was vegetarian, would the world be healthier? * How many parts do you have in your body? * What is puberty? * What is the deadliest disease… besides Ebola? * What is villi? * What is the niche of your pancreas? Liver? * What makes your heart beat? * How do your eyes work? * Why do some people have dimples and others don’t? Freckles? * What makes taste buds different? | * Similarities and differences between unicellular and multicellular organisms * Relationship between Cells, Tissues, & Organs * DNA is and where it can be found in an organism * Heredity   + Inherited & Acquired (Learned) Traits * Human Body Systems   + Muscular System (muscles)   + Skeletal System (bones)   + Nervous System (brain, spinal cord, nerves)   + Circulatory/Cardiovascular System (heart, blood, vessels)     - Blood Cell Basics (See Notes on Site)       * Four blood components and functions   + Respiratory System (nose, trachea, lungs)   + Digestive & Excretory System (mouth, esophagus, stomach, intestines) * Be able to compare and contrast Human Body Systems |

Human Body  
BLOCK 2 2014-2015

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| What we KNOW… | What we WANT to know… | What we will LEARN… |
| * The circulatory system moves your blood around. * We would be like pancakes without bones. * Your brain helps you think. * We have arteries. * We have 2 tonsils. * If you eat Cheetos, your fingers turn orange and STAY orange for a while… WHY? * When you die, your fingernails and toenails and hair keep growing for 2 weeks. * We have bones in our body. * Our kidneys help clean out our bodies and create waste. * If you go upside down for 30 minutes (estimate), you would die because all your blood would go to your head. * If you didn’t have muscles, your bones wouldn’t work. * Our heart pumps blood. * Your body is made of cells. * Usually, if you get struck by lightning you will die. * When you die, you might still flatulate. | * What do your tonsils do? * If your eyes were removed, how long would you live? * Why is urine yellow? * Why do people need cells? * How do you get freckles? * If your mom has blue eyes and dad has brown eyes, what color would you have? * Is there more than one air sac? * Where does ear wax come from? * Why do we lose bones as we grow up and mature? * How does the heart pump blood? * How does your feces form? * How do you get stronger? * Why do we throw up (vomit)? * How does your body grow? * How does a fetus breathe? * How does your body heal after breaking a bone? * How many traits can you inherit?­ * Do our cells grow with us when we grow? * How come some people are taller than others? * Is there something in your body that promotes telekinesis or ability to run fast, etc.? * Why don’t our eyes grow? * What are arteries? | * Similarities and differences between unicellular and multicellular organisms * Relationship between Cells, Tissues, & Organs * DNA is and where it can be found in an organism * Heredity   + Inherited & Acquired (Learned) Traits * Human Body Systems   + Muscular System (muscles)   + Skeletal System (bones)   + Nervous System (brain, spinal cord, nerves)   + Circulatory/Cardiovascular System (heart, blood, vessels)     - Blood Cell Basics (See Notes on Site)       * Four blood components and functions   + Respiratory System (nose, trachea, lungs)   + Digestive & Excretory System (mouth, esophagus, stomach, intestines) * Be able to compare and contrast Human Body Systems |

Human Body  
BLOCK 3 2014-2015

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| What we KNOW… | What we WANT to know… | What we will LEARN… |
| * We have systems in the human body. * The brain helps you move your bones. * Respiratory system helps you breathe. * We have three different types of tissues in our bodies. * Our teeth are made of enamel and dentin. * The brain has three parts. * The four stages of mitosis are anaphase, cetaphase, metaphase, and prophase. * The large intestines and small intestines are in the digestive system. * The heart pumps blood everywhere in your body. * There are at least 5 systems in our body. * Different people have different DNA. EVERYONE has different DNA. * The skeletal system is mostly bones and tissue (tendons, ligaments, and cartilage). * We have one hundred trillion cells in our bodies. * The heart doesn’t look like the heart symbol. | * More about the respiratory system… * How does our body separate good and bad when we eat? * More about the muscles… * How many systems are there in your body? * General information about the human body. * Blood (blood cells, red blood cells and white blood cells) * What system operates most when you are eating? DIGESTIVE! * How many bones are in the skeletal system? * How does the cell in eukaryotic organisms operate? * What are the differences between unicellular and multi-cellular organisms? * What is the relationship between cells, tissues, and organs? * How many bones does a baby have? * How many times could you break your leg before your leg falls off? * Do the cells eat nutrients or absorb them? Do cells communicate with other cells? * How do our blood cells travel through our body? * How many organs do we have? * Where do the cells travel? How fast does the heart pump if you are running really fast but don’t have any veins? | * Similarities and differences between unicellular and multicellular organisms * Relationship between Cells, Tissues, & Organs * DNA is and where it can be found in an organism * Heredity   + Inherited & Acquired (Learned) Traits * Human Body Systems   + Muscular System (muscles)   + Skeletal System (bones)   + Nervous System (brain, spinal cord, nerves)   + Circulatory/Cardiovascular System (heart, blood, vessels)     - Blood Cell Basics (See Notes on Site)       * Four blood components and functions   + Respiratory System (nose, trachea, lungs)   + Digestive & Excretory System (mouth, esophagus, stomach, intestines) * Be able to compare and contrast Human Body Systems |