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
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Human Body
BLOCK 2 2014-2015

|  |  |  |
| --- | --- | --- |
| 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?
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* Be able to compare and contrast Human Body Systems
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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?
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