

<b>What makes a better body?</b> <b>What the body is made of—its structures and their functions</b>					
<b>THE BIG IDEAS</b>	<b>MONDAY</b>	<b>TUESDAY</b>	<b>WEDNESDAY</b>	<b>THURSDAY</b>	<b>FRIDAY</b>
<i>The human body, and other living things, are organized into organ systems, organs, tissues, and cells</i> NGSS MS.L1.3	<b>What do we already know about the body?</b>  Better Body Mini-lecture  Challenge Stations  Project Introduction	<b>What do you think about dissection labs?</b>  Dissection Ethics: Take a Stand  Dissection Orientation	<b>What is structure? What is function?</b>  Chicken wing dissection	<b>What exactly is a body?</b>  Worm Dissection	<b>What makes a better body? Could you make it better?</b>  Better Body Challenge – Begin!
NGSS MS.L1.3 & <i>Living things are made of cells</i> (NGSS MS.L1.2)	<b>What are living things able to do?</b>  Demo: Watch it grow  Class Challenge: Living Proof	<b>What are the structures of living things?</b>  Fish dissection	<b>What makes a body work?</b>  Frog dissection: the major organ systems	<b>What do human, worm, chicken, fish, and frog bodies all have in common?</b>  Dissections follow-up	<b>What makes a better body? Could you make it better?</b>  Better Body Challenge – Checking in & submit 1 journal entry
NGSS MS.L1.3 & <i>Cells have functions, and cell parts have functions</i> (NGSS MS.L1.1)	<b>What holds the body together?</b>  Bone/marrow dissection and tissue investigation	<b>What makes up a body? How well do you know your own cells?</b>  Cheek cell microscope investigation	<b>What do different cells have in common?</b>  Comparing crazy cells microscope investigation	<b>How is a cell like a Mini-Me?</b>  Making connections: Analogies between cells & the body	<b>How can we “see” inside the body?</b>  What a Show Off: Challenge Board & submit a second journal entry
<i>The human body, and other living things, are organized into organ systems, organs, tissues, and cells</i> (NGSS MS.L1.3)	<b>What makes a better body? Could you make it better?</b>  Better Body Challenge – Work on your Data Poster, work on Challenge Board	<b>What makes a better body? Could stem cells make it better?</b>  Take a Stand on Stem Cells	<b>What makes a better body? Could stem cells make it better?</b>  Stem Cells: Media Decoding Activity	<b>What makes a better body? Could you make it better?</b>  Better Body Challenge – Finishing touches on Data Poster and Challenge Board	<b>What makes a better body? Could you make it better?</b>  Better Body Challenge – Demo Day!

**Welcome!**

**What makes a better body?** This question could not come at a better time for you, as a human operating the bizarre and amazing body you have. Have you ever wondered how steroids work? Why some people can't drink milk? What it would be like to have fur? Well, then this unit is for you.

My friend, Tim, used a Groupon to get LASIK eye surgery. He never has to wear contact lenses or glasses again! Obviously, it is getting easier and easier to change our bodies. But some things are still really hard to change (man, I wish I had night vision...). Our culture is OK with modifying or assisting our bodies in a lot of ways: for health, convenience, life-saving measures, research, sports, or cosmetics. In the age of LASIK, heart transplants, stem cells, prosthetics that “talk” to the brain, blood doping, and buttock implant surgery, the time is now...to learn about HOW your body works and WHAT are the parts that make it work. When you get a grasp on that, you can start thinking about how to MAKE IT BETTER. **By the end of this unit, you will be able to:**

1. **Appreciate** the diversity and complexity of structures and functions that make your body work.
2. **Able to apply** your knowledge of structure and function to develop ideas that improve the human body.
3. **Think critically** about efforts in medicine, health, and technology that also attempt to improve the human body.

You will do lots of **dissections** (and you will have a chance to opt out if your personal beliefs guide you to do so). You will complete a **project** in which you prove how to improve a skill with the help of your amazing body. You will also complete a **challenge board**: you choose your own mini-project that shows a body system at work. On our **unit assessment**, you will get to show me what you've learned! Fasten your seatbelt, put on your helmet—because we are about to take a crash course on the structures and functions of the human body.