

The Kingdom of the Great River

Script

Curtain Opens (Spotlight on narrator)

Narrator- Good morning/evening. Welcome to Charles Ellis Presents: The Kingdom of the Great River. We are glad you are here to help us celebrate the history of the fascinating universe we call home. Before we begin, we would like to remind you of some theater grace and courtesy. Please turn off all cell phones. During the show, please refrain from taking any flash photography. There will be no intermission during today's performance, so please stay seated at all times.

Many stories are told within the Montessori classroom. These stories are meant to raise curiosity and spur questions concerning the world around us. Some stories chronicle the formation of the universe, the coming of life, the coming of humans, and the development of language and numbers. The students use these lessons as a spring-board to guide their educational choices in the classroom.

Today, we are pleased to present "The Kingdom of the Great River". In this lesson, the different systems of the human body are explained. Students are taught that each system has a specific task that is vital for the proper functioning of a healthy human. We hope you enjoy our musical as it is presented by the 4th, 5th, and 6th grade students at Charles Ellis Montessori Academy. The entire script, most song lyrics, sets, props, and costumes are completely student created for your entertainment. We hope that our presentation of "The Kingdom of the Great River" will challenge you to further your thinking about the amazing gift of life and inspire you to explore your own understanding of your body.

So, without further ado, let's begin the show! I think it's best to let Maria and her son, Mario, Montessori take it from here.

Maria: Can you feel your heart beating? Can you hear your own heart? Follow the rhythm of your heart as we tell you a story...a story about...

Mario:a beautiful nation. A nation that has more inhabitants than there are people living on our planet. Most of these inhabitants like to remain hidden, and although they cannot be seen very easily, nonetheless they are there. They only take orders from the President and even though there are so many of them, they rarely talk to each other directly. Yet each and every one of them has one thing in common, they are all linked

together by this Great River that flows through the city. Everybody has a job to do, and every job is done according to a great cosmic plan that is to the benefit of every member.

Maria: There are no complains, no delays, and no omission, Every citizen is focused on the job they have to do and surprisingly nobody is aware of the complexities that are involved in keeping everything in order. It's the perfect workforce, everybody working for the community keeping away any and all evil that might harm their nation. They are born and live to work, and when the time comes where one of them dies, the body is slowly swept away by the Great River, only to be replaced by a new eager citizen to perform the duties he is assigned.

Mario: This wonderful and unique nation is governed by a single every vigilant ruler that never leaves his post in the castle, yet is always aware of what is going on around him because he has advisors who have a direct line of communication with the various departments of the kingdom. With the aid of his advisors the president is able to make instantaneous decision and issue immediate orders. It is up to the president to keep everything in the kingdom in balance and all of its citizens' needs are being met

Maria: This ever-watching ruler in his castle represents the central nervous system. Please welcome Ms. Renees' class to the stage as they tell us more about this human body system

Dr. Cerebrum Takes Control

Performed by Ms. Renee's, Ms. Elizabeth's and Mr. Anthony's Upper Elementary

Scene 1

Narrator 1: Okay now that was a lot of information about the _____. Let's turn on the TV to see what's going on.

TV enters stage and turns on . TV exists stage.

Scientist is in lab.

Reporters are standing outside Dr. cerebrums lab reporting the news.

Reporter 1: Breaking news ... a mad scientist, Dr.Cerebrum, is in his lab making a Frankenstein.

Reporter 2: Okay, Bob I got it from here.

Reporter 1: Okay, take it away Joe.

Both reporters sneak into lab.

Reporters 1& 2: We are inside the mad scientist's lab and the authorities are outside.

Dr. Cerebrum: Mwa hahaha!

Police Chief: Open up you no good Pharmacist!

Police chief outside knocking on door.

Dr. Cerebrum: I'm not a pharmacist you lazy law enforcer!

Police chief: You have no right to what you are doing to that poor civilian.

Dr. Cerebrum: I don't need any rights.

Reporter 2: As you can see, there's a lot of conflict happening around here.

Reporter1: Yes, I can definitely see that.

Dr. Cerebrum:Mad Scientist: I have almost created my Frankenstein. Mwa
hahaha!

A sign goes across the stage that says “ Kids don't try this at home”.

Dr. Cerebrum: Now, I will extract the nervous system from this poor fool!

Mad scientist pulls out CNS and PNS from Frankenstein.

Mad scientist stuffs CNS and PNS into the jar with floating brain.

Mad Scientist knocks jar over and nervous system falls into the plutonium
barrel.

Dr. Cerebrum: Oh no, not the plutonium!

Nervous System: I'm alive!

Frankenstein: Groaaaaan.

Dr. Cerebrum: Oh no!

Frankenstien gets off table and crashes through paper wall.

Mad scientist, Reporter 2 and Reporter 1 scream!.

Dr. Cerebrum: Hey what are **YOU** guys doing in here?

Reporter 1 or 2: US? Ahhh, we snuck in here to get the scoop.

Nervous System: What are we going to do about Frankenstein?

Dr. Cerebrum: He needs a nervous system. I can't use
you because you're
alive.

Reporter 1: I know, why don't you make one Dr. Cerebrum!

Dr. Cerebrum: I've never made a nervous system before I don't know how.

Nervous system: I'll teach you.

Scene 2

Nervous System: Let's start with the basic building block of the nervous system. The nervous system is made of nerve cells called neurons. The neuron transfers impulses from one place in the body to another.

Dr. Cerebrum: Okay, I can make a copy of yours and then make more neurons.

Sparklers and axon, dendrite posters move about the stage

Nervous System: Then there's the Brain Stem, also known as the Reptilian Brain. It's the oldest part of the nervous system and it controls your ability to survive.

Brain Stem poster moves about the stage

Dr. Cerebrum: Okay, I will be sure to make one of those.

Nervous System: Oh, and be sure to include a Central Nervous System and Peripheral Nervous System which are all the nerves that are outside the brain and spinal cord.

Posters enter

The Central Nervous System and the Peripheral Nervous system work together to make rapid changes in your body in response to stimuli.

Dr. Cerebrum: What kind of information?

Nervous System: The electrical impulses that come from the brain

Dr. Cerebrum: Got it. I know just the thing.

Nervous System: Here's an example; some messages are so simple they don't even have to go to the brain they just go to the spinal cord. They are quickly translated into actions and are quickly sent back to where it came from.

Dr. Cerebrum: I got it, but I might have to improvise.

Reporter 2: You can do it Dr.Cerebrum!

Candle demonstration

Dr. Cerebrum: Ok.

Nervous System: There's the transport of impulses. The impulses are carried through the axons and dendrites which jump the gaps in neurons, the gaps are synapses.

Poster of axon and dendrites and plasma ball

Nervous System: The final thing you want to know about is the Cerebral Cortex (poster) The Cerebral Cortex has two hemispheres, the right hemisphere and the left hemisphere. The difference is that the right hemisphere controls the left side of your body and the left hemisphere side controls the right side of your body.

I have told you all the basics of the Nervous System you need to know.

Dr. Cerebrum: It will take me just a minute

Song

Scene 3

Dr. Cerebrum: Alright, that's enough of this Nervous System... Assistant get me some Unplutonium.... pronto.

Assistant: Comin' right up!

Nervous System: wait, noooooooooo!

Dr. Cerebrum dunks nervous system into unplutonium.

Assistant: Hey that reporter got your keys and he's letting in the police officer

Dr. Cerebrum: He's what!!!!!!!!!!!!!!

Police Officer: Hands up you're under arrest.

The scene changes to where Dr. Cerebrum the mad scientist wakes up in his bed.

Dr. Cerebrum: (Raiford panting and yawning) Thank goodness that was a dream!

Then comes another knock on the door.

Dr. Cerebrum: Huh, who would be knocking on my door at this hour?

Raiford opens the door

Police Officer: Hands up you're under arrest.

Raiford: Wait a minute did you have the same dream I had or did I actually make a
Frankenstein

Mario: As you exit the great castle you marvel at the architecture that has gone into designing the buildings in the kingdom. And, surrounding it all is a strong and stable wall. This wall provides structure and support to the kingdom.

Maria: The kingdom walls represent the skeletal system. Please welcome Ms. Marianna's homeroom to the stage as they share with us some information about this system.

Skeletal System

Written by: Eva O'Donnell, Charlotte Browne, Cleo Cribbs, and Chloe Shaw

Actors: Eva O'Donnell (Doctor Eliza), Dorothy Keyes (Edith the nurse), Charlotte Browne (Anne: a maid), Cleo Cribbs (Margaret: a maid), Will McCarn (the messenger), Chloe Shaw (Alice: a maid), Liam Steffen (the "carriage" driver), and Pharaoh Wigfall (Edward the butler)

All maids sigh while looking out of castle balcony prop

Margaret: You guys, it's so quiet in the castle these days.

Anne: Yeah, it's boring around here. All the king makes us do is clean and feed him grapes. Even though he's the brain, we're the real brains around here.

Alice: Shush! The king will hear you.

Margaret: I will have to say, though, I do kinda wish something interesting would happen.

Alice: Me, too.

Edward walks in

Edward: Hello, girls. What a fine morning it is-*Whoooooaaa!!!!!!*

Edward slips and falls

Margaret: But not that interesting!! I thought you mopped that spilled water up earlier, Anne!

Anne: What spill?

Alice: Messenger!

Messenger walks in

Messenger: Yes, ma'am?

Alice: Go fetch the doctor immediately! Poor Edward is hurt!

Messenger runs off

Margaret: Oh, goodness, Anne. Your rag is on wrong.

Anne rolls her eyes while Margaret fixes her bandana

Anne makes it the way she wants after Margaret is done

The doctor and nurse arrive

"Carriage" Driver: Here's your stop, Doc.

Nurse Edith: Thank you, sir.

Dr. Eliza: Yes, thank you. Here's your threepence.

Dr. E hands Driver small coin, Driver tips hat

“Carriage” Driver: Thank you very much, ma’am. Have a good day.

Driver leaves

Dr. E walks briskly towards them while Edith runs quickly and almost trips over her skirt

Margaret: Where is the messenger?

Dr. E: Oh, he wandered off. Said he had someone to meet.

Margaret: (suspiciously) Hmmmm...

Edith: Oh, you must be Edward the butler! We’ll fix your arm up right away, sir.

Dr. E: Edith, do you have my tools?

Edith holds up small (cardboard) briefcase

Edith: Right here!

Dr. E: Where is Edward?

Edward: I can't raise my hand, but I’m down here.

Dr. E: We’ll mend your arm in a jiffy.

Nurse hands Dr. E a tool and sets briefcase down

Anne starts picking up tools and asks annoying questions

Anne: What is this? Is it dangerous? Should I be touching it? Does it go in my mouth?

What does it do? Is it for my feet? Ooooh, I know, it’s for my hair.

Anne almost puts the tool in her hair, but Edith takes tool from Anne

Edith: Please put that down. Don't touch the Doctor’s tools.

Anne: Is his arm broken? Will it heal? Which bone is it? Is it important? Can I play with the tools again?

Dr. E: Yes, yes, the radius, yes, ***definitely not.***

Edward: So, what's broken again?

Dr. E: The radius, which is the lower arm bone.

Anne: Why are bones so important, anyways?

Dr. E: They're the structure of the body, like the walls of this castle.

Edith: If you didn’t have bones, you’d be a blob on the floor with organs sticking out.

Alice squeezes bones protectively

Alice: Will they mend by themselves?

Dr. E: Yes, but the cast is just to protect the bone and make sure that it doesn’t move around and grow the wrong way.

Margaret: How long will the radius take to grow back?

Dr. E: A couple months. Four or so at the most.

Edward: Why do you like bones so much?

Dr. E: Well, I find bones very fascinating. In my youth, when I was deciding what to study in school, I often pondered to myself, *whips out skull while Anne shines

“spotlight”* “To study bones, or not to study bones. That is the question.” The answer?

To study bones. So that's what I did. (BTW, you've probably figured out that Shakespeare's *Hamlet* is my favorite play.)

Anne: Wow, *that's* a complicated backstory.

Dr. E: You know, I have something to tell you.

dance number

Anne: I think I did pretty good!

Edith: (briskly) Well, um... moving on.

Dr. E: Anyways, remember to keep that cast on.

Edward: Yes, ma'am.

Edith waves down carriage driver. Messenger comes with driver

"Carriage" driver: Hey Doc, why so long?

Dr. E looks at Anne accusingly

Dr. E: Yes, well, I had a few *distractions*.

Dr. E and Edith get into carriage

All palace workers: Thank you, Dr. Eliza and Nurse Edith!

Anne: Thanks for letting me touch your tools!

Edith shakes head

Edith: Oh, dear.

"Carriage" drives away

Other maids walk away with Edward

Margaret: Where have you been, messenger?

Messenger: Oh, just taking in the sights of the city.

Margaret walks over brushing hands together

Margaret: Good thing we got that spill cleaned up.

Anne: What spill?

Alice gasps while Margaret slips

Anne finds briefcase and pulls it out

Anne: Well, we don't need the doctor this time.

All but Anne: OH NO!!!!!!!!!!!!!!

Maria: Upon a closer look at the various buildings found within the kingdom walls, you notice that each is identified with a plaque stating its name. The first building you come across is identified as the "Department of Nutrition".

Mario: The important jobs done by the digestive system are housed in this building. This is where food is obtained and is able to be used by the body. Let's welcome Ms. Kami's class to the stage so they can tell us a bit more about this system.

OGT host: Welcome back to Organs Got Talent! I am your host, Intestine, and we are here with four contestants. Can we have a drum roll for the first contestant please?

(Audience and judges drum roll)

(contestant walks out)

Simon (Tavian): What is your name?

1 Contestant (River): Gallbladder jr. I store bile produced by the liver. Before a meal, I may be full of bile and about the size of a small pear. After meals, I am empty and flat, like a deflated balloon.

Simon (Tavian): Where are you from?

1 Contestant (River): You can find me under the liver.

Simon (Tavian): Good luck.

1 contestant: Thank you.

(Judges clap)

1 contestant (River): For my act, I will be doing magic tricks! Well, not really magic tricks. It's more like origami.

(Simon nods)

1 Contestant (River): So first I'm gonna make the stomach. The stomach secretes acid and enzymes that digest food.

(1Contestant says as folding origami paper)

1 Contestant (River): Ridges of muscle tissue called rugae line the stomach. The stomach muscles contract periodically, churning food to enhance digestion. The pyloric sphincter is a muscular valve that opens to allow food to pass from the stomach to the small intestine.

(Simon gasps)

Simon: I did not know that.

Heidi: Seriously, this guy sounds more like a scientist than a magician.

(Mel B nods)

1 Contestant: Mel B is the rightful owner of this origami stomach.

Mel B: I am? Oh, I am! Um, thank you.

(1 Contestant hands Mel B origami stomach)

Mel B: You may exit the stage.

[Contestant leaves]

Simon (Tavian): *sighs* One more act until break.

Heidi (Jordan): Phew.

Mel B (Abby): I liked that guy.

Howie (John): I'm ready to eat so my stomach will get the Digestive experience too!

(Judges give Howie a look)

OGT host: Can we have a second drum role for our second contestant please?

(Audience and judges drum roll)

(2 Contestant walks out)

Mel B (Abby): Hello, and what's your name?

2 Contestant (Faye): my name is Esophagus. I connect the throat and the stomach. I am about 8 inches long, and i'm lined by moist pink tissue called mucosa. It takes 10 seconds for food and drinks to move through me to the stomach

Mel B (Abby): Well, Esophagus, what is your act?

2 Contestant (Faye): I'm like, a REALLY good singer.

Mel B (Abby): Good Luck!

2 Contestant (Faye): Thank you!

(Stands in front of microphone)

(2 Contestant warms up voice badly)

2 Contestant (Faye): Ready!

Mel B (Abby): You may start.

(2 Contestant sings "Hey Poo" badly)

HEY POO (Faye)

Hey poo, don't feel so bad

Take an apple and you'll feel better

Remember to let it into your gut

Then you can start to feel it better

Hey poo, you were a-crepe

You were made to go in my tummy

(Simon puts left hand high in the air and 2 Contestant stops singing)

Simon (Tavian): That was absolutely horrible!

{Contestant runs off stage}

Heidie (Jordan): Break time.

(Judges walk off stage)

Host: Time for a short commercial break!

(Host walks off stage 2 Contestant)

(commercial people walk on stage)

Salesman(Rowan) : Do you have a stomach bug?

(points at audience)

Salesman(Rowan): Then call the stomach bug busters!

(Stomach walks out)

Stomach(Hayden): I had a stomach bug for so long and didn't know what to do until I called the stomach bug busters and now I can digest as much food as I want!

(Has prop of sandwich, and takes fake bite)

(Buggs walk out)

1 Bug: What can I say, taking over bodies is my jam.

2 Bug: Same dude.

1 Exterminator & #2: BE GONE BUGGS! GO AWAY!

(Sprays Buggs)

1 Bugg and 2 Bugg: AHHH!

(Buggs run off stage with stomach)

Salesman: just call 888-don't be a bugg

Salesman says in quick voice: No bugg was harmed in the making of this ad.

{Commercial people leave}

(Host walks on stage)

Host: Phew, I'm glad that is over with. Okay, bring out the judges! And welcome back to Organs Got Talent!

(Judges walk out)

Mel B: Thank you, thank you!

Heidi: Wow.

Simon: Fame is everything Heidi.

Howie: No Simon, food is everything.

(Judges give Howie another look)

Host: Ok, let's not keep the contestant waiting.

(Judges nod)

Host: Can we have a drum roll for the third contestant please?

(Judges and Audience drum roll)
(3 contestant walks out)

Howie: Hello.

3 Contestant: Hi.

Howie: And what is your name?

3 Contestant: I am Granny Appendix.

Howie: And what's your part in the human body.

3 Contestant: I am a small, pouch-like sac of tissue that is located in the first part of the colon, Lymphatic tissue in me helps in immune function. I chose to dance.

Howie: Are you sure?

3 Contestant: Very sure.

Howie: You may start when you like.

(3 Contestant nods)

(3 contestant puts her cane on the ground)

(3 Contestant dances crazy)

3 Contestant sings/talks: The Mouth, Esophagus, Stomach, Liver, Gallbladder, Large and Small Intestine, the Pancreas and the Anus! They do all the work!

3 Contestant sings in softer voice: And I the appendix, am absolutely nothing..

(Judges clap wildly)

Simon(Tavian): Ok judges, what do you think? Howie you go first.

Howie(John): I loved this act. I almost burst out laughing but I held it in.

Simon(Tavian): Mel B?

Mel B(Abby): I hated it. It's making you think that your useless. And no one is useless.

Simon(Tavian): Heidi?

Heidi(Jordan): Same as Mel B. I don't think you could win Organs Got Talent.

Simon(Tavian): Ok, votes?

Howie(John): It's a yes for me.

Mel B(Abby): No.

Heidi(Jordan): I have to say no too.

(Host walks 3 Contestant off stage)

Host(Nahiese): And for the fourth and final act can we have a drum roll please?

(4 contestant walks on stage)

Heid(Jordan)i: Hi, what's your name?

4 contestant(Devin): My name is Pancreas.

Heidi(Jordan): Where are you from?

(4 contestant says angrily)

4 contestant(Devin): I am a gland, about six inches long, located in the abdomen. I am surrounded by the stomach, small intestine, liver, spleen and gallbladder. I have two main functions – digestion and blood sugar regulation.

I am also a comedian, so can I please get started?

Heidi(Jordan): Uh,.. yes.

4 Contestant(Devin): What happens when the heart goes crazy?

4 Contestant(Devin): It pumps!

(Laughs at himself then abruptly stops)

4 Contestant(Devin): What happens when you swallow your food?

4 Contestant(Devin): It goes out the opposite side it came out of.

(4 Contestant laughs really hard)

(Howie laughs)

(Simon Whispers)

Simon(Tavian): What is this?

Mel B(Abby): I don't know.

(Heidi and Mel B hit red buzzer)

4 Contestant(Devin): what was that for? These are funny classics!

Howie(John): I know, why?

Mel B(Abby): They make no sense at all.

Heidi(Jordan): But this makes sense!

(Judges all get up and everyone recently on stage comes on)

(Song come on)

Eight days a week

Oh, I need some food, babe

Yes you know it's true

First I eat the food babe

Then I swallow too

Hold me, feed me, hold me, love me

I ain't got nothing but food, babe

Eight days a week

The food it goes down my throat

Yes you know it's true

One thing I can say, girl

Then it goes to my stomach too

Hold me, feed me, hold me, love me

I ain't got nothing but food, girl

Eight days a week

Eight days a week

I feed you

Eight days a week

It's churned and mixed and broken down,

then to the large intestine

Yes you know it's true

Through the small intestine

Now i've gotta poo

Hold me, feed me, hold me, love me

Now I've gotta poo, babe

Don't leave a streak

Mario: Do I see windmills in the distance? Yes, I believe they are! As you walk up to the slowly rotating blades, you notice a sign that says "The Department of Air Quality".

Maria: The Department of Air Quality is a metaphor for the respiratory system. This department makes sure air is constantly moving around and that every inhabitant of the nation is able to the quality of air they need. Ms. Sonya's classroom has created a skit to tell us more about this system.

Cast:

Doctor Wheezing (*girl*)

Very nerdy, sometimes mysterious

Doctor Forgetful Organelle (*boy*)

Forgetful, always confused

Alexa (*girl*)

Always rolling her eyes, lazy

Ava (*boy*)

Bored

Henry (*boy*)

Interested, very nerdy

Charlotte (*girl*)

ALEXA

I don't wanna go! Our math teacher gave us an assignment due tomorrow! We have to do it now! (stomps foot)

AVA

(sarcastically)

Hooray. Yipee. We get to learn.

(Mrs. Teacher pulls Ava to the side and gets mad at him [silently])

HENRY

Doc Organelle is right! It'll be *awesome*! I would take it a trillion times!

Mrs. Teacher

Class, tell me what you inhale and release.

(No one says anything)

DOC WHEEZING

What about some dangerous and fatal illnesses & diseases?

HENRY

Oh! Specifically, pneumonia would be the worst. It is a serious infection in your lung that could possibly kill you without proper

medicine, and I believe Antibiotics help a lot. *Bronchitis* is an illness--

ALEXA

--in your bronchial tubes. Yes, we know. We get it now!

HENRY

Asthma blocks up your bronchial tubes also, preventing enough oxygen to get through your body. There is also another one...It has to do with damaged air sacs in the lungs? Emphysema?

(No one says anything)

HENRY

Ugh.

Scene two

DOCTOR F. O.

What's going on today, again?

DOCTOR WHEEZING (slaps forehead)

The field trip!

CHARLOTTE

NOW I get why his first name is Forgetful.

SOMEONE BACKSTAGE (Levon

Ring ring!

DOCTOR WHEEZING

I'll get that. Hello? Oh yes. (pause) Oh my. We'll be there in a minute.

AVA

Wait. What do you mean, *we*? Is there an emergency, Doctor Wheezing?

DOCTOR WHEEZING

Sort of. Follow me.

PSA#1

Cast: PSA speaker (Amelia) Tree (Olivia) (Ian, Oak) (Levon, Magnolia) (Boone kid)

Script: You, as a person, can make a difference! Did you now during hurricane Matthew, as much as 300 trees were knocked

down! Trees are beneficial to humans! They provide oxygen for the earth! Over the past 12,000 years 46% of the tree population has been annihilated! An estimate of 15.3 billion trees are cut every year! That's what Tree insurance covers! WE PLANT TREES!

(Boone) Wait, where is the evidence? There isn't actually any proof!

(Olivia) Let me tell you buddy! Those humans are merciless! I lost three limbs to them last winter! Oh, they are cruel! I also lost $\frac{1}{3}$ of my bug population!

(Ian, Levon) TRUE! TRUE!

(Boone) Wait, what did we do to your limbs?

(Olivia) Humans cut down my limbs for firewood! Oh, I am just so angry! That's why Tree insurance promised a safe haven for me in a greenhouse! Where I cherish with other plants and bugs!

Scene 3

CHARLOTTE

Where are we going? I thought we were going on a field trip!

DOC F.O.

We are. It just takes some time getting inside.

ALEXA

It shouldn't take long to get insi--wait. Is that...?

DOC WHEEZING

Yes, the human body! We are traveling inside the human body!

HENRY

Aw man! I wanna go to the museum!

DOC F.O.

Well, do you guys know what happens when you breathe in?

CHARLOTTE

Another quiz?

HENRY

When you breathe in normally, your lungs are only $\frac{1}{5}$ full. An adult's lung can contain up to a dozen pints of air when breathing in deeply. There's basically a command center in the base of the brain. It can tell how much oxygen you breathe in and other stuff. Your ribs expand and rise upward, making your chest cavity bigger.

HENRY

Wait, when are we leaving?

DOC WHEEZING

...let's go over here.

CHARLOTTE

Wait, why is that human huge?

DOC F.O.

We are microscopic, invisible to the naked eye and the size of a human body cell. Only a microscope can see us!

ALEXA

But how will we get up there?

DOC WHEEZING

Simple,

Scene 4

CHARLOTTE

Ugh...why do we have to climb up so high? And why enter through the nose? There are green things in here!

DOC F.O.

Those are boogers (I think) and watch this--WHOA...!

DOC WHEEZING

Now we're going to be deposited in the windpipe.

AVA

Then why did we go up in the first place?

ALEXA

So we could see the nose, I guess.

DOCTOR WHEEZING

To the lungs!

Scene 5

("blood cells" carrying "oxygen" on their backs)

AVA

Why are those red things moving the blue things?

DOCTOR FORGETFUL ORGANELLE

Well, those red things are actually red blood cells and the blue things don't...the blue things don't have...

SOMETHING BLUE #1 (Levon)
We don't have oxygen!!! That's what we are!

DOCTOR F. O.
R-right. No oxygen

DOCTOR WHEEZING
The oxygen goes into the blood and the carbon dioxide goes out,
because it isn't needed. The oxygen provides energy that is used for
the cells.

ALEXA
The lungs have multiple branched tubes of the Bronchial tree.

DOCTOR F.O.
Wait? Who is everyone again?

LUKE (pointing to the people)
Luke, Henry, Alexa, Charlotte, Doc Wheezing.

DOC F.O.
Wait, who is Doctor Wheezing?

DOC WHEEZING
Your lab partner!

DOC F.O.

Oh. Wait, see that? That is Alveoli.

DOC WHEEZING

It is part of the several air sacs of the lungs that allow rapid gaseous exchange. Can anyone tell me what the lungs do?

CHARLOTTE

For once, I know. Each lung is a spongy organ filled with air and each is on either side of the chest, or thorax. The windpipe controls inhaled air into the lungs and into the tube-like branches.

DOC WHEEZING

Excellent, Charlotte! Now, what are the capillaries for?

ALEXA

A capillary is a network of blood vessels, branching between the venules and arterioles.

DOC WHEEZING

Well, guys, we've been here for a while. Time to leave. (Act Sad)

HENRY

Aww, man!

Scene 6

(Classroom)

DOC F.O.

Well, guys that was fun! See you in a little bit after never! Adios!!!

ALEXA

I'm so sad!

AVA

Just *BREATHE!!!*

Song "Help" starts (breathe)

Maria: Across a valley you notice an imposing structure. It's thick walls and towers seem like they would be able to withstand the force of any attacking army. As you approach the huge metal door you notice a sign above it reading "The Department of Defense".

Mario: The Department of Defense represents the body's immune system. This department is constantly on the lookout for strangers they don't recognize who may wish to do harm to the kingdom. The function is to find, capture, and destroy anybody that might pose a threat. Mr. Trent's homeroom is here to tell us a bit more about this system.

Narrator - The immune system, one of the most fascinating systems in the body. Today we are going to learn about the body also known as the Great River. Let's take a trip inside the Great River to visualize a story.

(Narrator walks off stage)

Ronald- “Mom, I don't feel too great”

Reese- “ Me, too mom.”

Karen- “Go get some sleep, then you might feel better.
(holding hand to head) I think you may have a fever.”

(Karen, Ronald, and Reese walk off stage) (White blood cell Leader, White blood cell 1 & 2, Leader of virus cells, and virus cells walk on stage)

Narrator- Deep inside Reese’s body, a battle was about to take place. The white blood cells were protecting her body from the invading virus cells.

Leader Blood Cell- Antibodies! Antibodies! Where are the antibodies? Antibodies can stop the spread of viruses!”

White Blood cell 1- “Got them here!”

(white blood cell 2 throws antibody at virus cell)

Virus cell 2- “Aaagh! Not the antibodies!”

Blood cell 3- “I want to go back and read the newspaper, The Daily Immune.”

Blood cell 4- Me too, I’d rather be relaxing in the stomach.

Blood cell 1- Guys, we have work to do!!!

Leader Blood Cell- YEAH MOVE IT!!!!!! THAT’S THE SPIRIT!!! COME ON!!!!

(leader blood cell and blood cells go off stage)

(Reese and Karen walks on stage)

Reese- “Mom, I feel better now!”

Karen- “Good, maybe that sleep helped!”

Reese- “No, I think it was something else.”

(Reese and Karen walk off the stage)

Narrator- But Ronald was still feeling bad. Let’s look inside *his* immune system.

(Leader Blood cell walks on stage)

Leader blood cell- There's a bacteria attack! Go go go!
Release your antibodies!

Narrator- "As you can see the white blood cells are....."

(white blood cell 1 throws antibody)

Narrator: ... OOF! Well, that was rude! Anyway, as you can see the white blood cells are trying to catch the bacteria using antibodies, because that's their job."

(All of the Blood cells throw antibodies)

Viruses including leader: OH NO! IT'S THE WHITE
BLOOD CELLS!!! RUN!!!!!!

White blood cells: ATTACK!!!!!!

(White blood cells Throw antibodies and Viruses go off stage)

Narrator- "Uh Oh! I better get out of here!" * Runs off stage*

White blood cell 1- “NOOOO! We have to keep attacking the virus cells with antibodies until they are gone! If not, Ronald will not get better!”

White blood cell 2 -“ Well, at least they’re gone from here!”

White blood cell 3-” You have a point, but I frankly don’t like chasing bacteria, unlike Some cells! But we need to persist if we wish to rid the entire body of these bad guys.”

* Glares at White blood cell 1*

White blood cell 4- “ I’m still waiting to head to the stomach for some rest and relaxation!”

All of the white blood cells glare at white blood cell 4

White blood cell 4- “What! We’ve been working non-stop to fight the viruses. We deserve a vacation!”

* White blood cell leader rolls eyes*

White blood cell leader- “ Fine! But right after we get rid of this bacteria!”

White blood cell leader walks off stage and white blood cell 1 follows

White blood cell 2 -" Are we supposed to follow them?"

White blood cell leader-" Well, are you coming or not!?" *
Peaks out from the edge of the stage*

All White blood cells go off stage

Narrator - "Well! That sure was something! But poor Ronald I hope those cells catch the bacteria before he goes back to school! He definitely doesn't need MORE time in the nurses' office!"

All Viruses walk on stage

Leader of the viruses- " Well, Well, Well, What do We Have here. Now that we've been kicked out of Reese and Ronald, we need a new target to infect."

White blood cells walk on stage behind Narrator

Leader of the white blood cells- "HEY! Leave the narrator alone!"

Virus leader- “ Why should I? This Way I Can spread more viruses!”

White blood cells 4 throws antibody at the leader of viruses

Leader Virus- “ NOOOOOOOO! More antibodies!?!? How? I can promise this won't be the last time you see me! Wherever someone isn't washing their hands...we'll be there. Whenever someone forgets to cover their nose when they sneeze...we'll be there!”

All viruses yell and run off stage.

*All people who are dancing come on stage people who aren't going to dance off stage”

(Dance to the Here Comes the Sun)

“ALL BOW AND WAIT UNTIL THEY STOP CLAPPING AND WALK OFF STAGE!”

Mario: Meandering through the center of the kingdom, and within sight of all of the kingdom's departments is a beautiful Great River. You find the “Department of Transportation” nestled in one of the river's many turns.

Maria: The Department of Transportation represents the circulatory system. This department is responsible for moving things from one location to another. Its job is to

keep the Great River moving in a nice and even manner. Please welcome Ms. Corinna's class to the stage as they show us more about this human body system.

Family Feud

Act 1

(Steve Hearty says this with pazazz)

Steve Hearty (Sofia): Welcome back to the Circulatory Family Feud! I am your host, Steve Hearty!! Tonight we have two very special families. Our guests are the White Blood Cells and the Red Blood Cells. They are both very important to our body, one transporting oxygen in our blood, and the other making sure we don't get sick.

(The Red and white Blood Cell family walks out)

Bob the dumb kid (Charlie): Do we have to do this annoying show dad?

Frank the Fishing dad (Melvyn): I heartily agree and I would rather be fishing, but you're grandmother made us do this, so even if you wanted to go somewhere else, you wouldn't be able to.

Sheldon the nerdy kid (Francie): And I would rather be conducting an experiment on a radioactive donkey.

Alice the Knitting Grandmother (Alice): Correctamundo.

Amber the Spoiled Kid (Chandler): I'm hungry, grandma. I want cake. Why isn't there a buffet?

Sheldon the Nerdy Kid (Francie): Cake and other unhealthy foods increase your Polyunsaturated fats which can cause heart disease. That is bad for your circulatory system! Also, being white blood cells, my family finds it very important to rid infections, including bacteria, viruses, fungi, and other pathogens.

Amber the Spoiled Kid (Chandler): I wasn't talking to you dork-stranger-person

Sheldon the Nerdy Kid (Francie): The name's Sheldon but anyway, Good nutrition is an important part of leading a healthy lifestyle so you can reduce your risk of chronic diseases.

Karen the Mom (Hattie): And that children, is why I don't let you eat anything but vegan, gluten-free, organic, locally grown kale and spinach. You just don't know what could happen to you if you eat or listen to bad stuff. That is also why you can only listen to American Top 40 with Casey Kasem at all times.

(Karen mom pats here children on the head as if stroking a dog or cat.)

Amber the Spoiled kid (Chandler): Respect the drip Karen.

Steve Hearty (Sofia): Al`right, Blood Cells, shall we begin this game?? A question will be given to a specific family about the Circulatory System. Each question answered correctly will give your family 5 points. If your family wins, you get a lifetime supply of free never skip a beat dance studio classes. Can I have Sheldon and Amber step up please?

(Sheldon and amber walk up to steve Hearty)

Amber (Chandler): Ugh do I have to go against him?

Steve Hearty (Sofia): Okay, how many times does your heartbeat in the average lifetime?

(Sheldon hits the buzzer.)

Sheldon (Francie): Hmmm, According to my calculations, it's obviously 3 billion times. But to be exact, if you live to be 80, your heart will beat about 3,363,840,000

Steve Hearty (Sofia): Correct. Now this next multi answer question goes to the white blood cells family!

(Steve Hearty walks over to white blood cells family)

Steve Hearty (Sofia): Now Jessica what do red blood cells carry through your veins?

Jessica (Anna): Sksksk, I'm pretty sure that its oxygen, carbon dioxide, and food.

Steve Hearty (Sofia): Correct! Now Karen, What is blood made out of?

Karen (Hattie): Umm, Red food coloring?

(Sheldon slaps his face in exasperation)

Steve hearty (Sofia): I'm sorry but that is incorrect, blood is made of a liquid called plasma and three types of cells: Red cells, white cells, and platelets.

Karen (Hattie): I need to speak to the manager.

Steve Hearty (Sofia): I'm sorry but I`m the manager.

Karen (Hattie): hmp

Steve Hearty (Sofia): Elliot, How many times does your heartbeat in a day??

Elliot (Chanoah): Uhh...90,000.

Steve hearty (Sofia): Ouch, I'm so sorry but that is incorrect! It actually is 115,200 times a day.

(shrugs with his head down)

Elliot (Chanoah): oh.

Steve hearty (Sofia): Sheldon, What are platelets?

Sheldon (Francie): Platelets are blood cells that help stop bleeding, easy peasy!

Steve hearty (Sofia): Okay correct, two strikes be careful Jessica. What is another name for the Circulatory System?

Jessica (Anna): The C system.

Sheldon (Francie): No! HOW could you get that wrong?! It is OBVIOUSLY the CARDIOVASCULAR system!

Steve hearty (Sofia): You are correct Sheldon but it wasn't your turn, so that's three strikes! So now it all depends on the red blood cells.

(Alice knits)

Steve hearty (Sofia): Bob now you're up. What is the main role of the circulatory system?

Bob (Charlie): uhhh...

Alice (Maya): To transport nutrients, gasses such as oxygen and carbon dioxide, hormones, and wastes through the body.

Steve Hearty (Sofia): It was not your turn Alice, it was Bob's.

Bob (Charlie): Yeah, it was my turn!

Alice (Maya): Excuse me, but I have 60 years on you young man!

(Picks cane up off of the ground near Steve's head)

Steve (Sofia): Okay!

(Puts up hands in surrender)

Steve (Sofia): looks like we're doing it your way now. Before I announce the winner, we'll have a short commercial break.

(Never Miss a Beat Dance Studio Ad Plays)

Instructor (Autumn): Hi, I am Miss Rainbow Red Heart and welcome to Never Skip a Beat Dance Studio. Here at Never Skip a Beat, We want to teach red and white blood cells how to boogie. Today we will show you something small called the hip heart.

(Instructor does move, cells follow, cells keep dancing)

Cell 1 (Johnny): Just call

Cell 2 (Aiden): 888-668!

Steve (Sofia): After an amazing game that was super close, the Red Blood Cells win! And as their prize, they get a lifetime of free classes at never miss a beat dance studio!

Alice (Maya): Now since my team won, let's have a dance party! Come one everyone! You too!

(points to the other team.)

Steve (Sofia): Thank you for attending tonight's Circulatory Family Feud! Remember to call Never Miss a Beat Dance Studio at 888-668!

(Yellow Submarine plays and dance begins)

In the vein where I was born
Lived a cell who sailed with me

And he told us of his life

In the land of you and me

So we sailed, up to the heart

And were pushed, up to the lungs

And back, inside the heart

Down the legs, we all afloat

We all live in a big bloodstream

Big blood stream, big blood stream

We all live in a big bloodstream

Big blood stream, big blood stream

And our friends are in the heart

Many more of them in the lungs

And the cells begins to play

(Instrumentals 5 secs)

We all live in a big blood stream

Big blood stream, big blood stream

We all live in a big blood stream

Big blood stream, big blood stream

(instrumentals 16 secs)

As we live a life of blood

Every cell has what they need

Cells of white (cells of white) and cells of red (and cells of
red)

In our big blood stream(in our big blood stream, ha ha)

We all live in a big blood stream

Big blood stream, big blood stream

We all live in a big blood stream

Big blood stream, a big blood stream

We all live in a big blood stream

Big blood stream, a big blood stream

We all live in a big blood stream

Big blood stream, Big blood stream...

Maria: There are many other buildings in the kingdom that you have not yet explored: The Departments of Purification, Maintenance, Water Control, and Space Exploration, but your feet are tired and you can do some more exploring some other day.

Mario: Can you feel you heart? Can you hear your heart? Can you feel this Great River? It flows through you right now. Can you feel this unique nation? The inhabitants are in each one of us. No matter how small, each inhabitant works continuously to keep your body alive. Everything is always in perfect harmony...

Maria: ...constantly working....

Mario: ...unconscious....

Maria:and untiring.

Mario: Thank you for joining us on a journey through the kingdom on the Great River! As we finish our story, please welcome back to the stage all of our classrooms for a grand finale sing along! Have a great evening!

All sing "Long and Winding Road"