**Intro Story for the Electromagnetic Spectrum**

*This is an enrolling activity that will get students to have fun with the different types of waves in the spectrum. If possible try to make this story just a dream and allow them to have fun without the knowledge they are learning about the electromagnetic spectrum. After the Model System activity we can then go back and use this story to label the waves in order of their energy level. During this story there will be call backs and body motions.*

Story: Hello kids. Last night I had this crazy, crazy dream and it had all of you in it. Do you want to hear about it? *(Hopefully their answer is yes)* It all started out with me entering a 7 mile race. Yeah that’s crazy right! When I got there, there was an ambulance. On the side it had the letters EMS. What did it have on the side? *(elicit EMS)* Then this girl(may use a student name) comes up to me and says, “do you want special powers to help you in this race?” I said, “sure!” Then, she handed me two bracelets. One was a magnetic bracelet. Everybody look and say ooohhh. The other was an electric bracelet! Everybody say ahhhhhhh! So I put them on like this. What type of bracelet is this? *(elicit “electric”)* and what type of bracelet is this? *(elicit “magnetic”).* So I put the bracelets on and nothing happened! *(look confused)* So I looked over at this girl and I said what so special about these? She said you have to move your electric bracelet like this *(up and down)* and your magnetic bracelet like this *(left to right)* making really long ruffles. (Do these motions and get the kids to do them with you.) So I did and guess what happened?

I started floating. Then I heard, “on your mark, get set, go!” I started to move at the speed of light. I was moving my hands and zoom I was gone. I was moving my hands and arms really long and all I could hear was this blaring radio. What did I hear blaring? *(elicit radio)* I yelled” turn down that radio!” No one did and I realized that no one could see me! I was invisible. I was thinking these special powers were a little crazy! How fast was I going? (speed of light) What was blaring? (radio)

So I reached the 1st mile marker and again I was moving my arms really low! So I decided I’d do something! I moved my hand and made more ripples. Guess what happened! No I still went the speed of light; but I did see my friend and said hey I’m floating and going the speed of light. But they couldn’t see me. Then the craziest thing happened! It started raining! But not regular rain. It was raining microwaves! What was it raining! (*elicit microwaves*) Yes microwaves. So I started making more ripples until I got to mile 3.

On mile 3 I saw my mom! I said hey mom but she couldn’t see me. I thought for sure she could see me. But all they were doing was cheering for my dog red! They were saying the craziest thing. They wanted him to make it to the end so they were screaming END FOR RED END FOR RED (motion: fist above head cheering). Come on everybody, cheer with me! (cheer with the class). Stop what about me! I was moving making more ripples, still moving the speed of light and no one could see me and all they were screaming is what? (End for red)

(Chunked review: Do the motions) Ok….let’s take a look at my crazy dream. What types of bracelets do I have on? On mile one how fast was I going? What was blaring in my ear? At mile 2 I make more ripples and what does it rain? Then even more ripples at mile 3 and how fast do I go? What were they cheering?

So I move my arms so that there are more ripples up and down and left an right. Now I’m on my 4th mile and I can hear GO Marty(your name here)! I nearly passed out. I said they see me I’m visible I’m visible(motion hands over eyes then uncover them as seeing for the first time). They started hollering yes Marty you are visible. Yayyyyy What was I hollering? (I’m visible)

I was really excited then so I started moving my arms even faster and then I was at mile 5. Which mile? (5). My arms were really rippling and I thought my speed would increase but guess how fast I was going? Yes the speed of light. Mile 5 was the scariest mile of my dream. This mile was full of mean mean cats. Not just scratching but these cats were violent. Not just violent but ultra violent. What were these cats? (ultra violent)(motion: claw scratching) I thought they were going to tear me to pieces but I figured out once again I was invisible. Safe whewwww! These cats weren’t just violent they were what? (ultra violent) How fast was I going? (speed of light) So I moved my arms even faster. Lots of energy being used!

Finally mile 6! The dogs were gone. I had lots and lots of energy going through my arms. I felt like I could bust through anything. I zoomed through the air, water, jello, I even jump through the person in front of me. This was kind of weird because I had to go through the gooey soft parts. His bones wouldn’t let me pass through them. So mile 6 was a fun and crazy mile. I screamed out loud.. I am ex ex ex excellent! What did I yell? (I am ex ex ex excellent)(Motion: Fold arms in an x) But no one could see me! Still invisible and still going the speed of light. So I moved my arms faster and faster.

Finally, mile 7! I had so much energy going through my arms. It was incredible. This was a very special part of the race for me. You would not believe who was there. My grandma! She was at the end of the race waiting for me. I reached out for her sitting on the ground and yelled gammmma! What did I yell? (gammmmma)(Motion: Arms out reaching). She couldn’t see me. And as I reached again and yelled gammmmma I collapsed!

And guess what happened then? I woke up in the hospital.