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The Beautiful Math Of Everything And You Included

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Abstract

This a reflection on how there is beautiful math to everything. An author's interpretation of matrices and mechanics in its relationship to someone's identity.

Keywords

STEAM, mathematics, poetry, connection, unconventional beauty, identity, mechanics

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The Beautiful Math of Everything and You Included

E. Ozie

People always say, “What makes up the universe?” but never really, “What makes up a person?”
What equations? What forces?

Back in high school, I did not think STEM had anything to do with art, but as I am in college writing a novel about the intertwining of STEM and Art, my thoughts on that have changed. Just as I take multiple glances at a painting in a gallery, I look at the definition of Newton’s First Law with the impression that there is more than meets the eye.

In my novel, my character Coral has a blog where she unknowingly speaks about STEAM as if it was poetry. I feel like some educators unknowingly speak about STEAM as if it was poetry as well. Complex topics can be lost in translation if those who are not willing to look and listen to what is being said as if it was poetry.

The topic of identity is everlasting and will compose each of our lives. I believe the way we can all look at identity and its relationship to STEAM can be changed once we discover the beautiful math of everything and ourselves included.

Matrices are one of those things you can find a little bit of yourself in. They can help answer “What makes up a person?” Matrices have personalities. I do not think you can find two matrices that are the same. This is like how no two people are the same even though they may appear similar. Matrices show connection, like the connection between you and the person living miles

away from you. They can also look like a painting when the smaller nodes connect with the bigger nodes. The connection itself creates a painting.

Another topic is statics. I have learned from my mechanics class the main overarching theme is calculating your summation of forces and moments. You can stare at a table, which is a rigid body, and began to question it. How might the table be affected once I put books on top of it? What support forces are needed? You can just simply stare at something and go through a whole thought process about why something is the way it is and what can changes do to it. This is very similar to how we could view identity. What if I choose to do one thing over another thing? What is the sum of the moments that make me who I am today? We can look at the moment equation abstractly and use it at a certain point in our life. The moment equation is force multiplied by the perpendicular distance. The forces that push and pull you in a certain direction can ultimately decide the path you take. When those forces and the path you go on combine, it creates a moment that possibly helps define who you are.

I would like to think the way we could view different topics like matrices and rigid body equilibrium can help discover some hidden poetry in science, mathematics, and engineering. There is an unconventional beauty in STEAM and its open for everyone to look as so.