

Visualization of Mathematics for Students to have a deeper understanding of Maths

Team Members

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Introduction-

We know the world of mathematics as rubble of equations that are twisted around as a beautiful yet horrible knot that we sometimes tend to avoid. We know for a fact that the solution for any two linear equations can be solved merely in 20 seconds but to answer as to how we are coming to that conclusion is a whole new story that we sometimes forget to explore. Students need to have the flexibility to draw Taylor Swift with equations that they have learned, they need to have the independence of knowing the skeletons of mathematics. From our side, we believe

mathematics is nothing but a paintbrush and with a pinch of help and guidance , everyone can become a Picasso.

At this stage, we are adamant to bring you a platform where they can learn the beauty of mathematics and by creating the shapes and sizes by the coordinates(The boring theory part) and also have a better understanding as to how each of the equations are working and how they are “actually” solved.

Goals and Objectives

Our project's name is “Geometry box”

Our goal is to create a platform where we show the equations or visualize and also doodle with geometry using coordinates, also we tend to solve equations and how they are solved.

We will be having three separate aspects-

1. Have a blank page and draw with anything possible. It's similar to MSPaint so that they can draw out any informal drawings. We

chose to do this part so that any part of mathematics can be done in a causal manner.

2. We will have a platform similar to graph. Then some coordinates may be given to draw to a circle, triangle, cube or even vectors. Also we will implement the possibility to move around the object as well as zoom in and out the whole graph.

3. Suppose, there's an equation $2x+3y=0$ and we will demonstrate the whole equation on a graph. Also, we have the plan to add some aspects of linear algebra like solving equations.

Reference-

We had the inspiration from daily life as because mathematics is a daily part of lives. Also had some ideas from Youtube as well.

Conclusion

Lastly, we would like to say that the reason why we were sold to this idea or why we decided to do this project is because I personally am a fan of visualization rather than the management system projects and

this might be the perfect food to deliver to show both creativity and excitement. We hope to create the perfect recipe for this and pull of something unique at the end of the. We recognize this lack mathematics visualization as a real world problem and the it can be guaranteed that there are tons of students looking out for something flexible and mathematics friendly like out project.