

## PRISMS' VISION

We seek to **close the STEM participation and achievement gap** by rapidly improving engagement, retention, and proficiency in math and science. We will do this by leveraging **immersive virtual reality (IVR)** to scale a pedagogy we know works for all students: **experiential learning** – learning through seeing, moving, touching, perceiving, and solving real-world problems.

## WHAT IS PRISMS?

**Prisms is the first experiential learning platform that uses adaptive IVR.** Students physically experience real world problems before ascribing language, symbolic notation to create mathematical models of compelling problems in our world today.

## KEY COMPONENTS OF THE PRISMS LEARNING SOLUTION

1. **VR content modules** for students to deepen their understanding of core concepts through real-world problem solving
2. **Real-time data dashboard** to support efficacious learning
3. **Wraparound curriculum** for lesson integration
4. **Ongoing PD and coaching** to elevate teacher practice



[prismsvr.com](http://prismsvr.com)

## JOIN THE MOVEMENT!

Join us to learn more about how virtual reality can transform secondary math and science learning outcomes at scale.

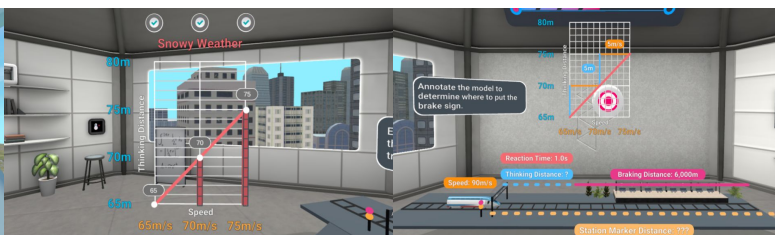
## HOW PRISMS WORKS: THE PRISMS LEARNING ARC

### In all Prisms Modules, students:

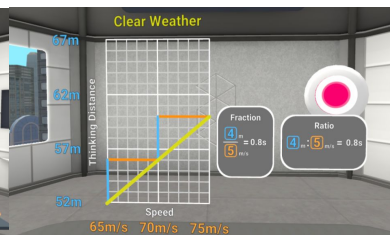
- ✓ Experience real-world contexts by being immersed in compelling and socially relevant problems
- ✓ Explore 3D data visualizations to connect physical experiences to mathematical abstractions
- ✓ Build, interpret, and gain fluency across mathematical representations and equations



Students **physically experience** their reaction times operating a high speed train braking system



They use **tactile graphs** to record the mathematical relationships they experienced



And **visualize different representations** of rates of change

To **create and interpret equations** and solve problems in context

## MATH LIBRARIES AVAILABLE NOW

### MIDDLE SCHOOL MATH

- Fractions
- Ratios
- Rates of Change
- Probability
- Surface Area
- Equations
- Inequalities
- Functions
- Integer Operations

### ALGEBRA I

- Linear Functions
- Systems of Equations
- Quadratics
- Linear Regression
- Exponential Functions

### GEOMETRY

- Transformations
- Similarity & Congruence
- Distance Formula
- Trigonometric Ratios
- Equations of Circles
- Solids of Rotation

### ADVANCED ALGEBRA

- Periodic Functions
- Complex Numbers
- Polar Coordinates
- Vector Addition
- Ellipses
- Matrices

## SCIENCE LIBRARIES AVAILABLE NOW

### HS/MS Chemistry

- Atomic Structure
- Intermolecular Forces
- Chemical Reactions
- Acids and Base

### HS/MS Biology

- Cellular Energy
- Biomolecules
- Cells
- Mitosis
- DNA