

## Gamification in mathematics: a critical look at the tensions between innovation and teaching practice in Bogotá



Gamification acquires educational meaning when it ceases to be a recreational strategy and becomes a purposeful didactic mediation.



### The Power of Emotional and Academic Transformation

#### Goodbye to Math Anxiety



Reduce the fear of making mistakes, turning them into opportunities for learning and exploration.

#### Boosting Performance and Soft Skills



Fosters resilience, critical thinking, and collaboration through dynamic challenges

#### Critical factors in practice



**Teacher training**  
determines whether gamification is deep or merely superficial.

**Infrastructure**  
Only 51% of households in Colombia have Internet.

**Institutional support**  
Reducing the workload is vital for the design of experiences.

### Overcoming the Challenge from Theory to Real Practice

#### Purpose vs. Superficial Pointification



**Superficial scoring**



**Intentional Pedagogical Design**

We must transcend the use of simple badges toward intentional pedagogical design.

#### The Gap in the Bogotá Classroom



#### Training and Technology

The lack of specific training and limited technological infrastructure hinder innovation.

#### Call to Collective Action



It requires continuous training, investment in connectivity, and the use of Open Educational Resources.