

## Realistic Mathematics Education and Visualization in Collaborative Settings

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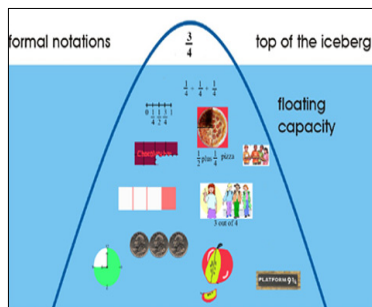
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## Realistic Mathematics Education (RME)

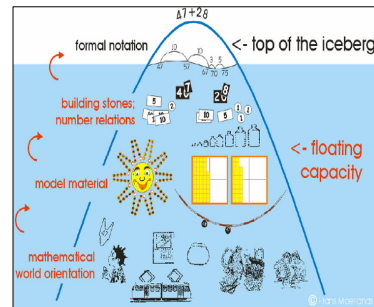
- Freudenthal Institute (The Netherlands) – founded in 1971
- Mathematics is a **human activity**
- Opportunities for students to “re-invent” mathematics through active participation in the learning process
- **Horizontal** mathematization: Students come up with the mathematical tools to organize and solve problems located in real-life situations
- **Vertical** mathematization: Finding shortcuts, discovering connections and applying these to new situations in increasingly more abstract ways

### RME Iceberg



[http://dme.colorado.edu/fius/fiusv062714\\_004.htm](http://dme.colorado.edu/fius/fiusv062714_004.htm)

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