

Problems in mathematics classes

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In the morning (or afternoon) students entered the Innovative Educational Environment (AEI). It was another day, another math class when they were surprised by the challenges that were thrown at them. I share here the two situations that can serve as ideas for other mathematics teachers (Science, Geography, Physical Education...).

1st Challenge

Opening OneNote, each student realized that it was the math teacher's intention that students would help him calculate the amount of energy (caloric value in kcal), the amount of proteins and sugars consumed at breakfast.



Breakfast contained:

- 75 ml milk;
- 85 g cereals;

Distributed the cereal boxes, it was up to each group to figure out how to calculate the amount of energy, proteins and sugars consumed in the meal. In the end they were challenged to describe the resolution strategy and everything they did and discovered.

2nd Challenge

I'm a sports fan, I love running and I love, [pedestrian-oriented sport](#). The theme [Scales](#) was not addressed in class context.



The strategy in this class was as follows: Half of the class performs an autonomous work of content consolidation using Teams and OneNote. The other part of the class performs the challenge of maps. In the second hour they change the tasks.

The students were distributed maps of pedestrian orientation of several

Portuguese cities. Students, each with their own map, would have to discuss and figure out how to know the actual distance, straight, of the distances between two points. The discussions began; ideas arose and began to test what they stood for. The teacher was given the role of moderator and facilitator of the work without ever speaking on scales. It was amazing how everyone was able to find the desired answers.

More: <http://www.i9-8.pt/problemas-nas-aulas-de-matematica/>