



BOARD GAME BASED LEARNING: HEMBIZIKA

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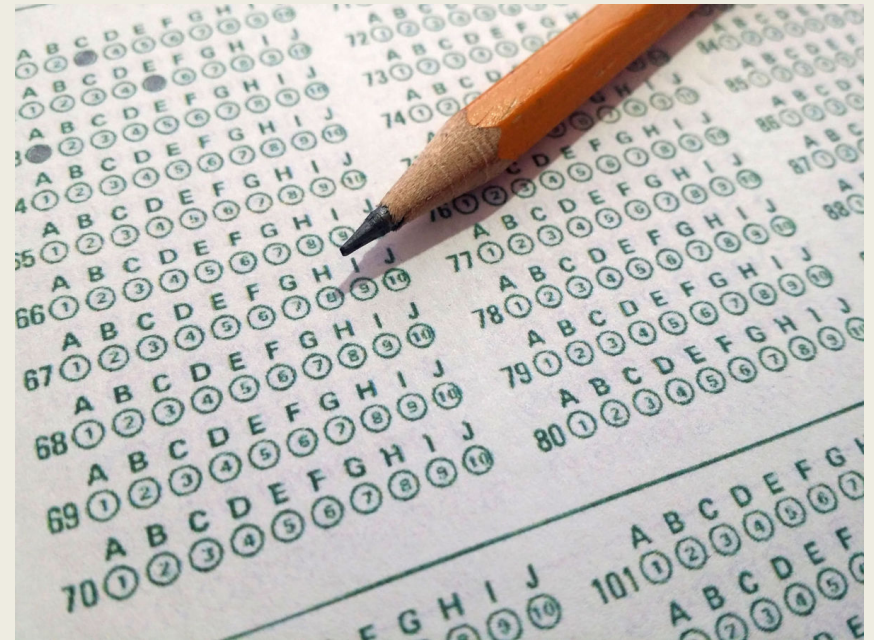
Gimnazija u Zaječaru

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Changes in Serbian education system

- 2014 combined test of 5 subjects (chemistry, biology, physics, geography and history) in elementary schools
- 2014 new standards for high school education
- 2020 new way of entry exams for colleges



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Board games

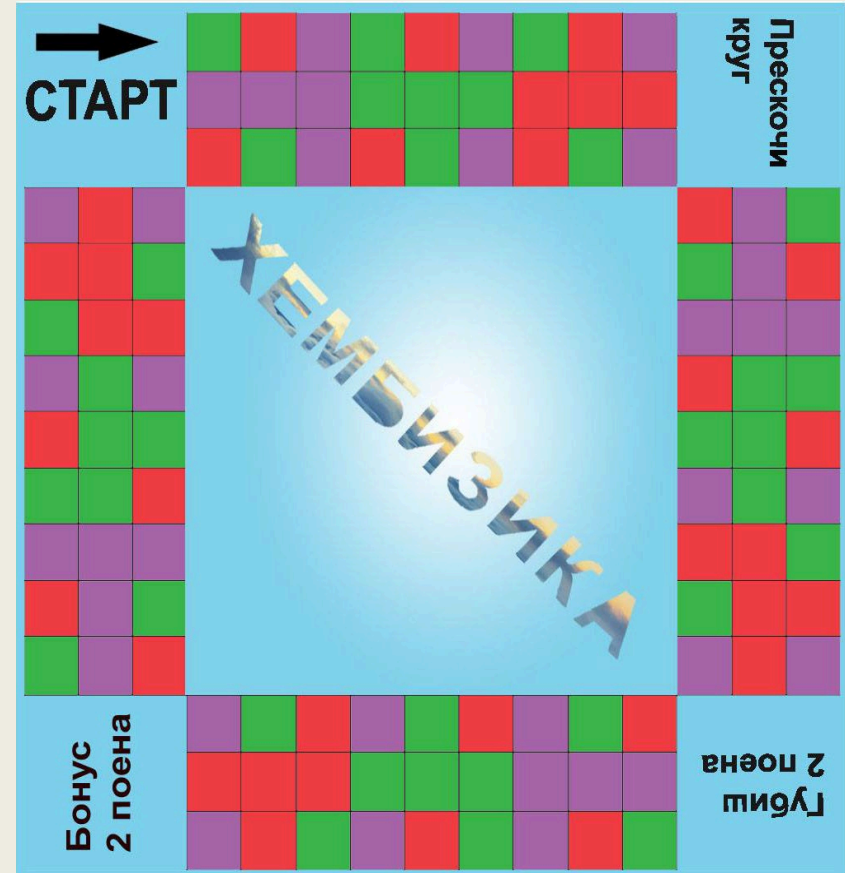
- Board game based learning is not a new thing



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FIRST VERSION OF GAME

- Board with three different colors
- Red for Physics
- Green for Biology
- Purple for Chemistry



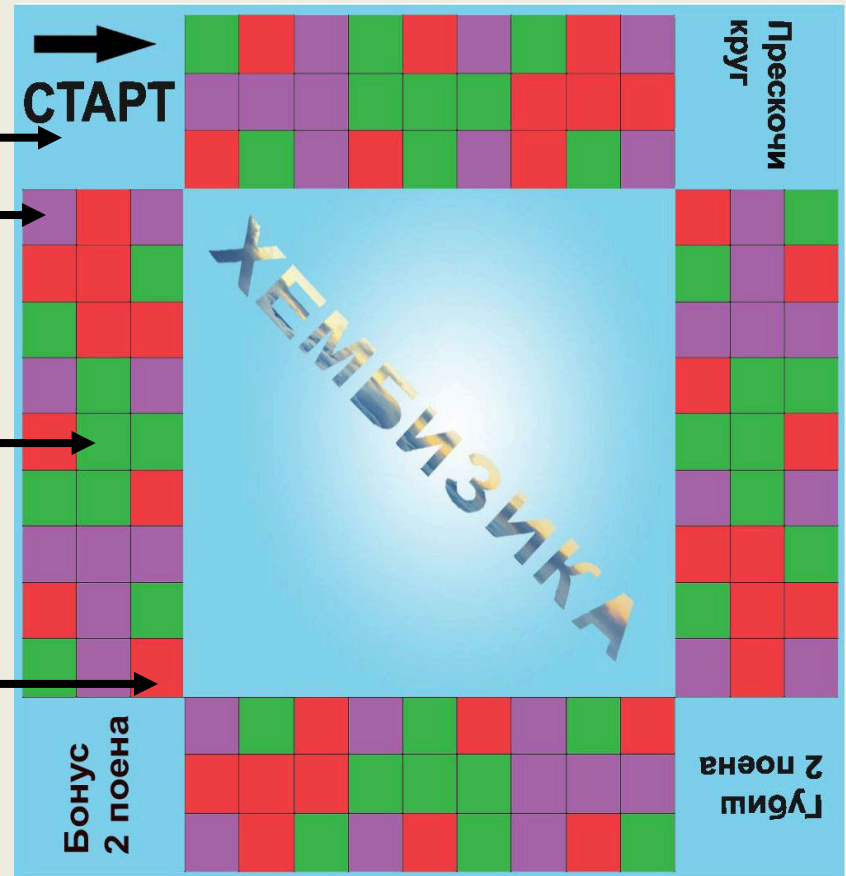
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START OF GAME

- Outer circle

- Middle circle

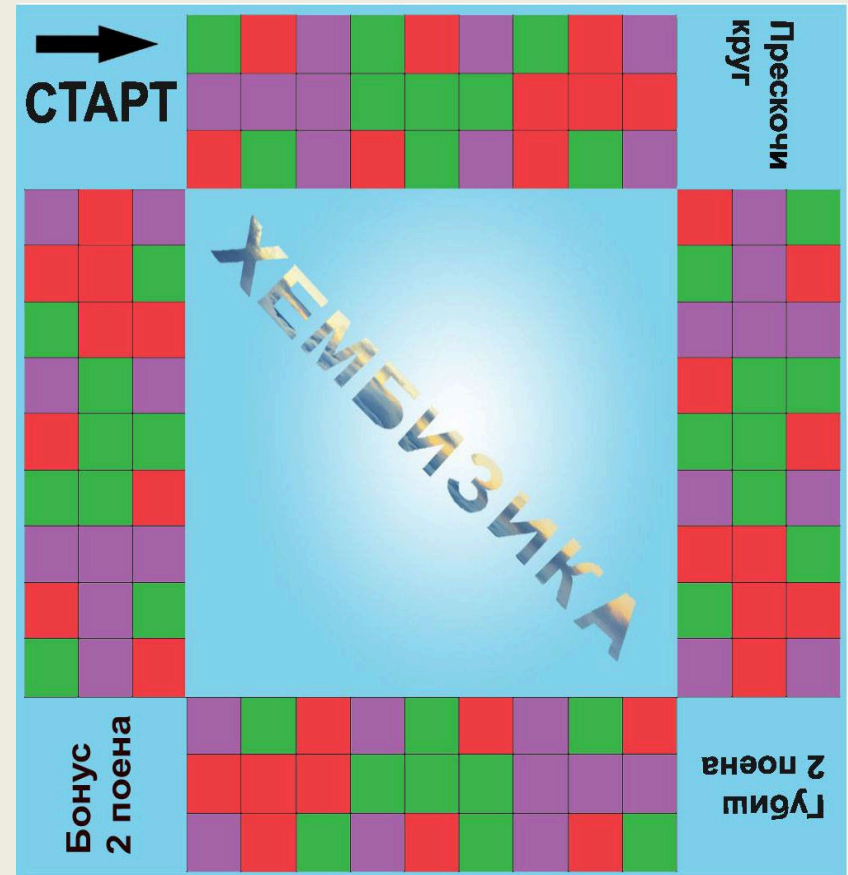
- Inner circle



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To be better we needed:

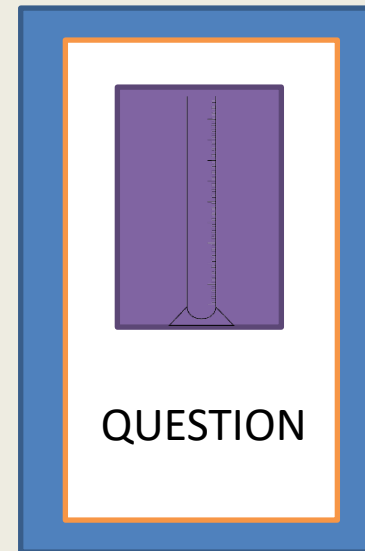
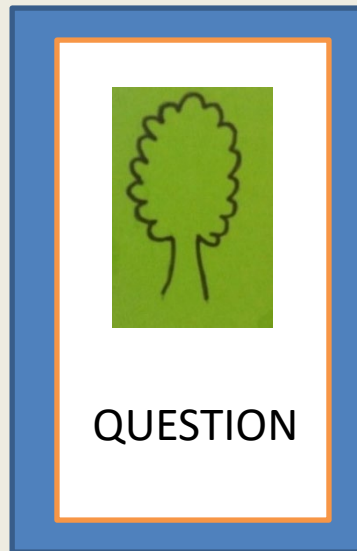
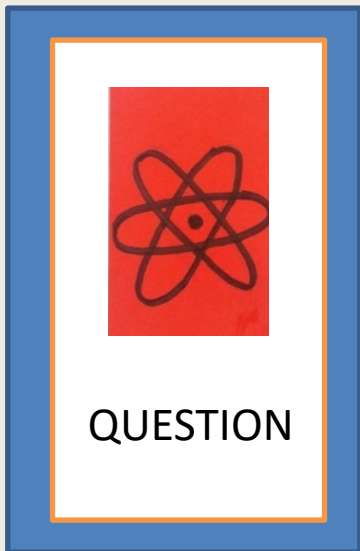
- More control over questions
- Faster play
- More active students



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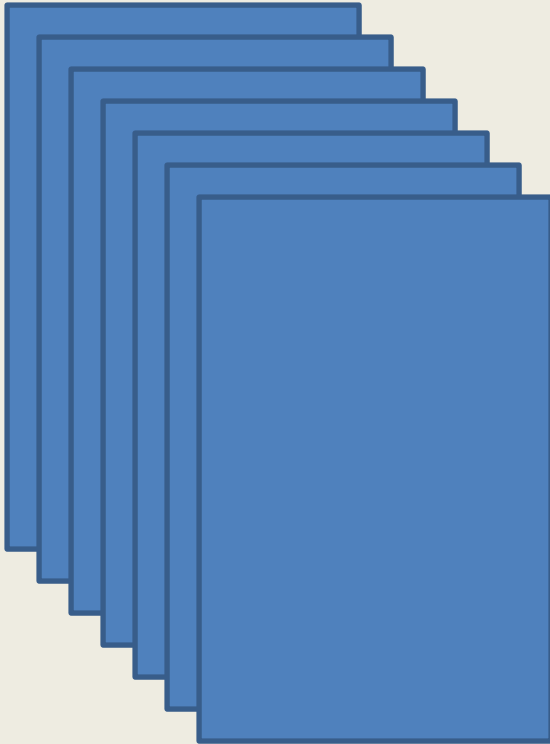
HEMBIZIKA 1.2

- New game was developed

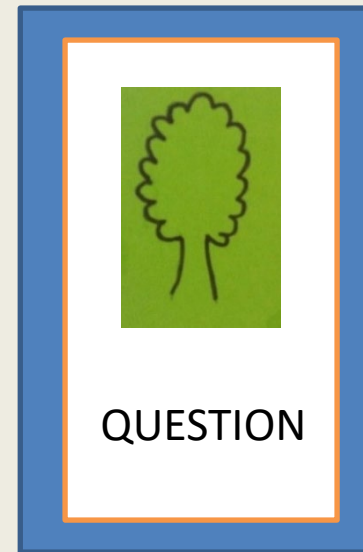


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Starting deck



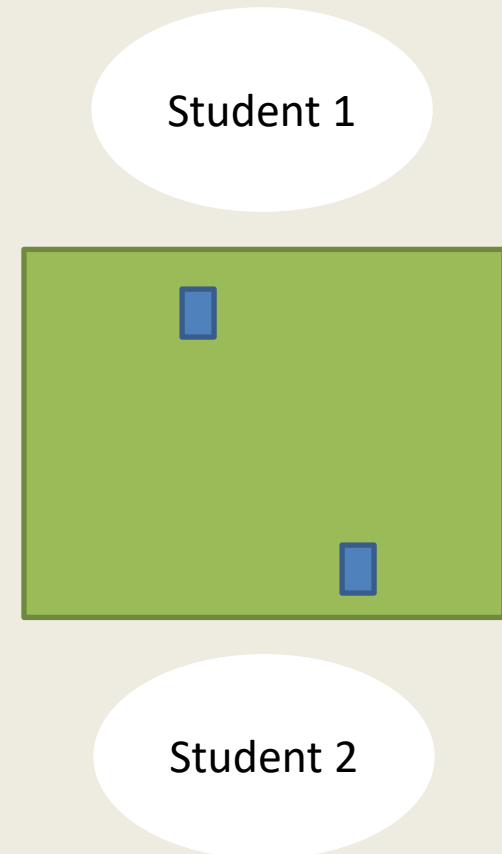
Current question



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HEMIZIKA 2

- Played in pairs
- Student 1 shows his card
- Student 2 asks him question from subject card shows
- First student without any cards left is winner



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Students need to think of their own questions !!!

- Students were asked for homework to think questions they can ask opposite players



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Choosing questions

- Most of questions showed that students at first preferred to ask repetitive learning questions

EXAMPLE

- a. Define velocity?
- b. Define acceleration?
- c. What measure unit is marked with N



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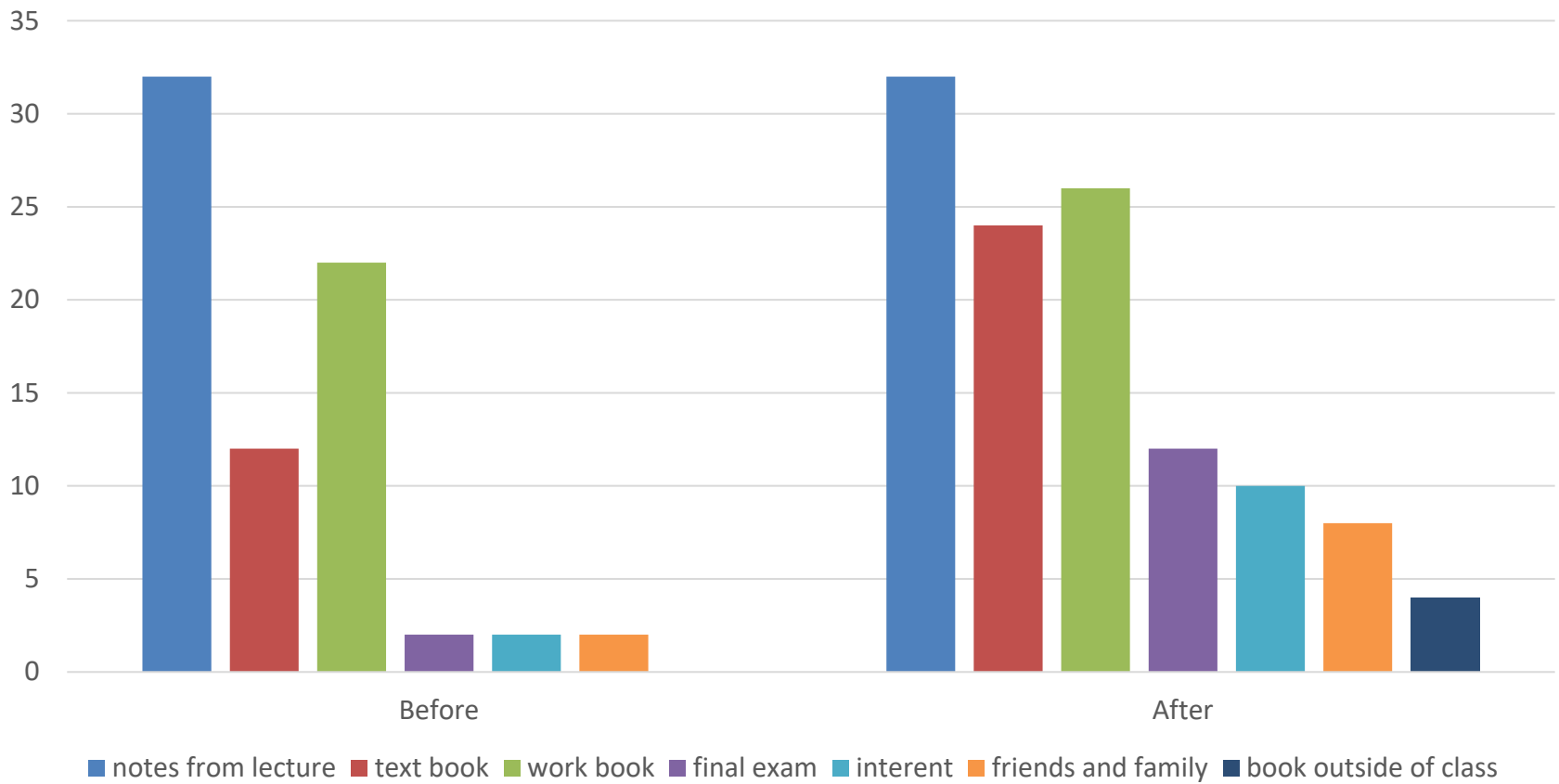
Choosing questions

- Students were then showed example used in text books for preparing final exam, PISA testing, Peer learning...



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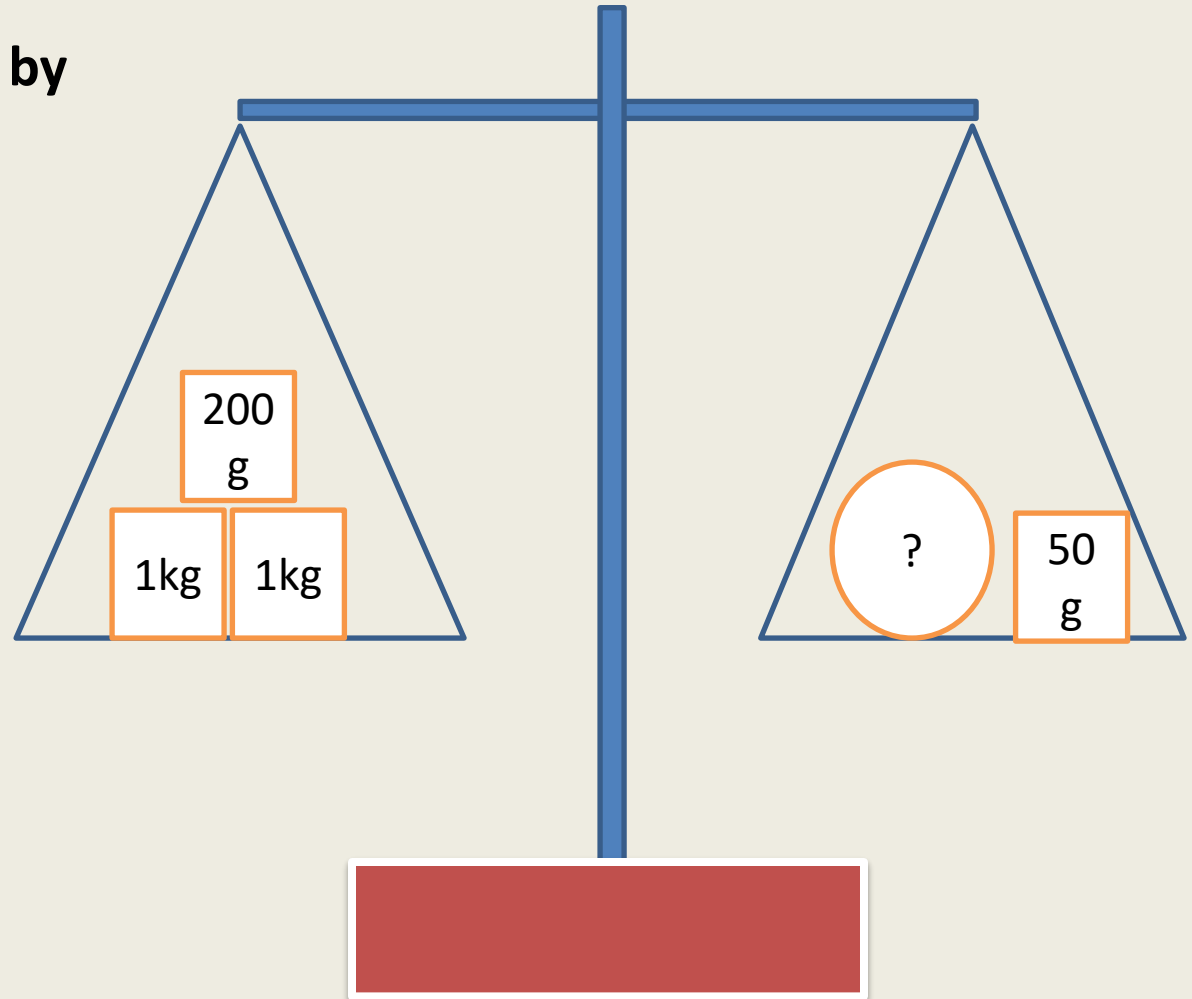
Sources used by students for preparation of question for game



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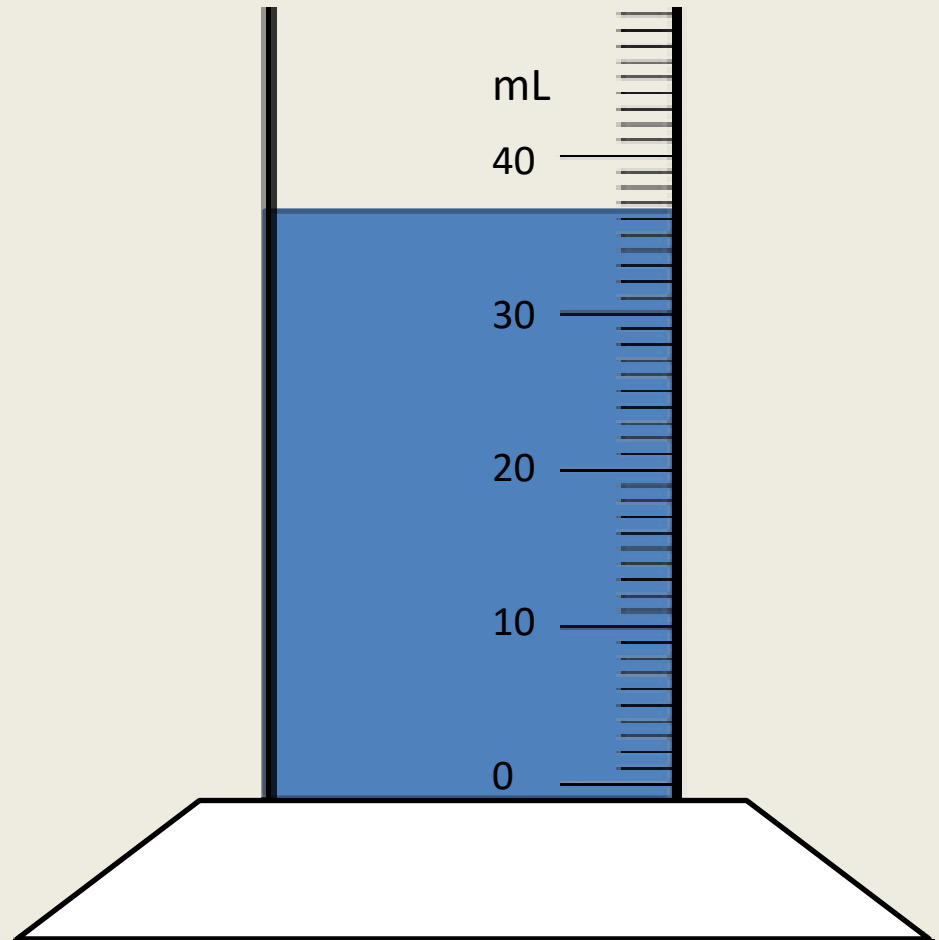
Example of questions by students

- What is mass of object on left scale?



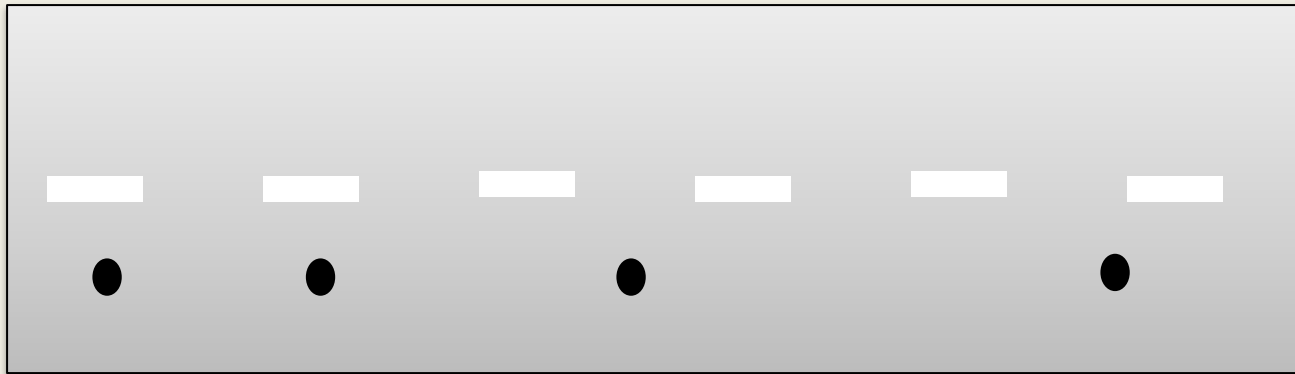
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- What is volume of liquid poured in graduated cylinder in litres ?



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- Oil is leaking from a car in movement. Can you tell by the tracks does the car accelerate , slows down or going uniformly?



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