ASSESSING PLANING SKILLS WHEN STUDENTS ARE INVOLVED IN THE INQUIRY ACTIVITY: "UP THERE HOW IS IT?"

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Objectives

Knowing the difficulties and potentialities, from a Physics teacher's perspective, of an assessment tool designed to assess students' planning an investigation skills, when they are involved in an Inquiry activity.

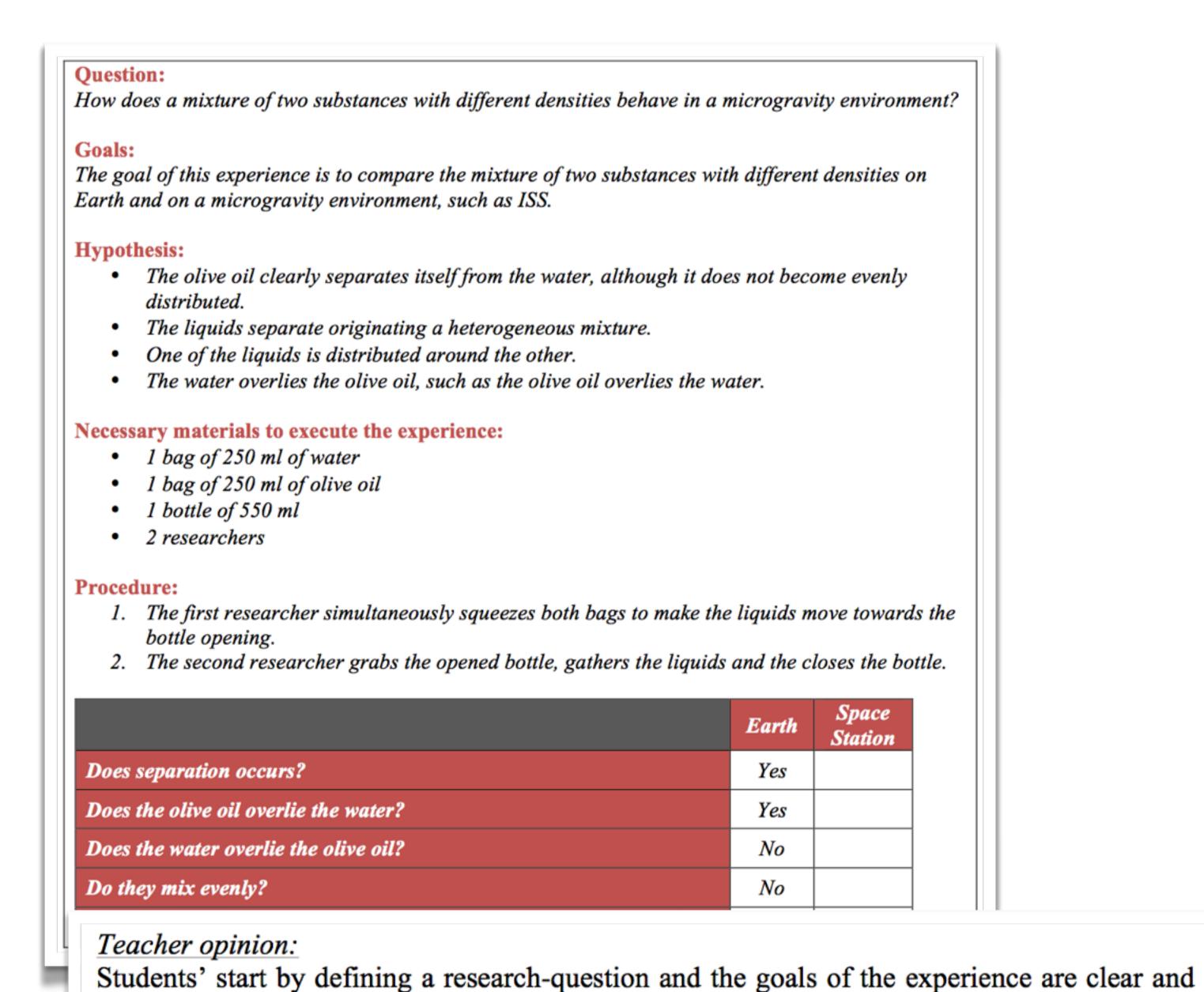
Knowing students' perceptions regarding the assessment process and tool.

Methodology

Participants: 32 students of the 11th grade Data Collection: students' perceptions—semantic differential developed by SAIL's Portuguese team; teacher perspective: students' written documents.

Findings:

Teacher perceptions regarding the assessment tool.



students' written documents: Level 2 — Exemple

aligned with the initial research question. The materials required to perform the experimental

plan were identified, and correctly explained by students, and an adequate procedure was

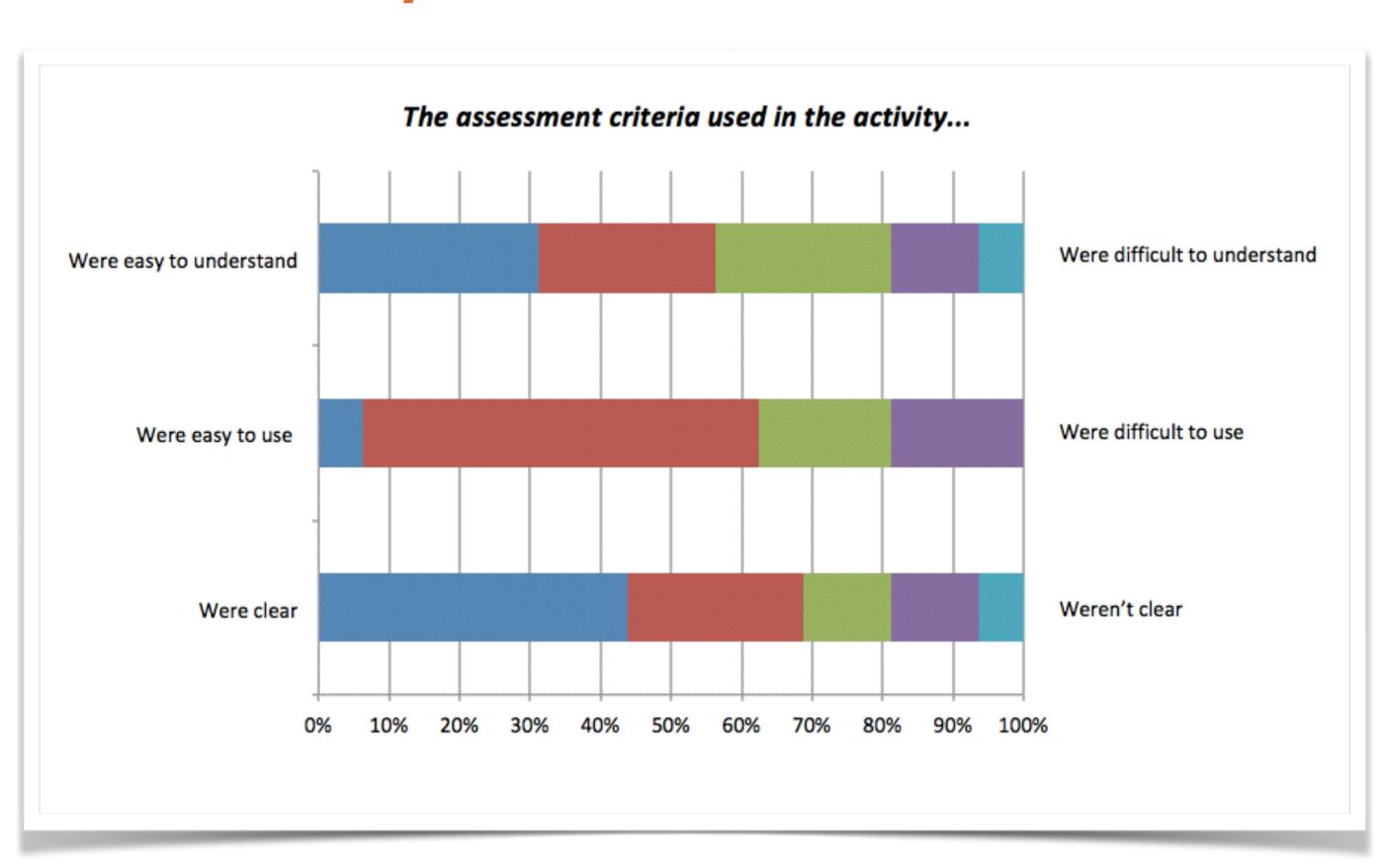
designed for collecting the data for responding to raise hypothesis. However, the second point

of the procedure isn't clear or reproducible, because it refers to an open bottle, containing

liquids; that cannot happen in a microgravity environment. If this point is not revised, the

completion of the experiment is compromised. However, the procedure after reviewed is

Students' perceptions regarding the assessment process and tool.





Conclusions

Teacher's perspective:

The instrument allowed to assess the students' performance regarding the planning an investigation skill.

The use of this instrument, allowed decreasing the subjectivity of qualitative assessment, such as to assess skills and to systematize the collected information from students' work, facilitating the oral feedback that was carried out after the completion of the task.

Students' perceptions: Most of the students perceived that knowing the assessment criteria was important, because gave the opportunity to make better decisions, helped the learning process, allowed to monitor their own work, showed the importance of having clear outcomes and increased the interest in the activity.







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