

What is worse, cigarettes or narghile?

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Country: Israel

Subject: Science for all, Chemistry.

Grade level: 9-12.

Curriculum content: Acids/bases, solids, gases.

Kind of activity: Laboratory activity.

Anticipated time: 3 lessons of 45 minutes each.

Assessment

- Students fill through the lab activity lab reports. They write their observations in the students' instructions sheet and answer questions. We suggest that part of the assessment would be based on the lab reports. The teacher can examine the unclear parts of the laboratory and can add his/her explanations.
- In addition to lab reports, we suggest the teacher to ask the students to write an essay regarding the question of the title: "What is worse, cigarettes or narghile?". The students should use the scientific knowledge they acquired during the lab to justify their opinion regarding smoking cigarettes and narghile. After this intensive lab, sometimes students could be not sure about the risks of cigarettes, and could mix the results of comparison between cigarettes and narghile and the absolute dangers of smoking. These problems float in the essays they write, and should be discuss next lesson.