

THE PILOTS SURVEY AT MY SCHOOL

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12. 10. 2012 Hluboká nad Vltavou

The class

- * The students of this pilot class study seventh year at our gymnasium and will graduate in the next school year.
- * When the survey was realized, there were in this class 21 students: 9 girls, 12 boys.
- * I'm not a teacher of this class and I don't know them personally.

The testing

- * In the classroom with the respondents were I and two older students – comperes. They organized the testing.
- * The respondents were divided into 4 groups. In each group were at minimum 2 girls and 3 boys.
- * In the first 5 minutes the students was informed about the project Matematech and purpose of the event.
- * In the last 5 minutes held an open discussion on the use of computers in the education.

The compere's observations

- 1) Constructive discussion took place in all groups.
- 2) The question : "What the project will follow?" were heard.
- 3) Unguided discussion gave students more food for thought.
- 4) Is not evident in the first question if we mean mathematic as a science or as a subject at a school.

The compere's observations

- 5) The answers to a question no. 2 tend to enumerated the topics of math at first.
- 6) The students have not experiences with a special software.
- 7) Tree students visit the optional seminar of math with a computer.
- 8) Within lectures of math is realized integration of ICT (working with Word, Excel, PowerPoint).

The compere's observations

- 9) None of those present did not say that he does not like math.

Students answers, question no. 1

- * All group agreed with
 - * Math develops a logical thinking.
 - * Math is important for other industries (physics, chemistry, architecture, descriptive geometry, technology, engineering, computer technology, economy, industry).
 - * Math is useful for living (income and expenses).

Students answers, question no. 1

- * The other positives of math
 - * It is entertaining.
 - * The job where we use mathematics is better paid and have a better future then humanities.
 - * Some of the examples can have more ways of solving and everyone chooses a procedure that suits him.

Students answers, question no. 2

- * All groups disagreed in any answers.
- * Three groups agreed that it is difficult to solve the given task in time.
- * Two groups agreed that it is difficult
 - * not to make a mistake in the calculation.
 - * remember the basics and formulas.
 - * maintain 100% attention and concentration.

Students answers, question no. 2

- * to find effective solution.
- * drafting, detailing and geometrical imagination.
- * correct interpretation of mathematical word problems.
- * correct expression in oral testing.
- * necessity of counting, practicing, enhancing curriculum.

Students answers, question no. 2

- * The other answers:
 - * It is difficult
 - * to find own mistake.
 - * to understand the curriculum, is not enough to study the curriculum.
 - * have a teacher who explains well done the curriculum.
 - * adapt to different teachers teaching.
 - * geometry, equations with parameter, combining formulas, volume curriculum.

Students answers, question no. 3

- * All groups consistently reported exchange of teachers and better motivation of the curriculum based on the application in practice.
- * Three groups recommend increasing the number of solved examples in teaching and reduce the frequency of homework.

Students answers, question no. 3

- * In two groups repeated these proposals:
 - * more demonstrate the use of the curriculum in practice.
 - * increase motivation.

Students answers, question no. 3

- * Other suggestions for changes:
 - * to improve explanation.
 - * to use working aids.
 - * to reduce the number of pupils in the classroom.
 - * not have math 8th or 9th lesson.
 - * to use the special software.
 - * timely graduation discuss issues and assist in their preparation.

Students answers, question no. 3

- * improve the text of the tests to be understandable.
- * to prepare tests on paper, not on the board.
- * to agree in advance on the date of the test.
- * to increase the time needed for solving a test.

The interview with the teacher

- * I realized the interview, the teacher is my colleague and she is 60 years old.
- * She teaches 36 years at this gymnasium.
- * She doesn't have any experiences with using a computer in the education.
- * She thinks it is appropriate two times in month to use ICT in the education of math.
- * She thinks the usefulness for graduation and universities exams is good motivation for the students.

The interview with the teacher

- * In its opinion in student motivation crease selection of examples of reasonable level of students, entering solo work in a lesson and evaluation of their solutions. The success is a big motivation.
- * My colleague is convince that computers can help to increase interest in math.

My observations

- * The students made impression on me very good, they stood the pilot survey responsibly.
- * They had no fear of the consequences of expressing their personal opinions.
- * Not all are willing to improve the situation to increasing involvement in their own initiative.

Thank you for attention.

