# Report on the Results gathered from the Evaluation Questionnaire for Students' (Turkey)
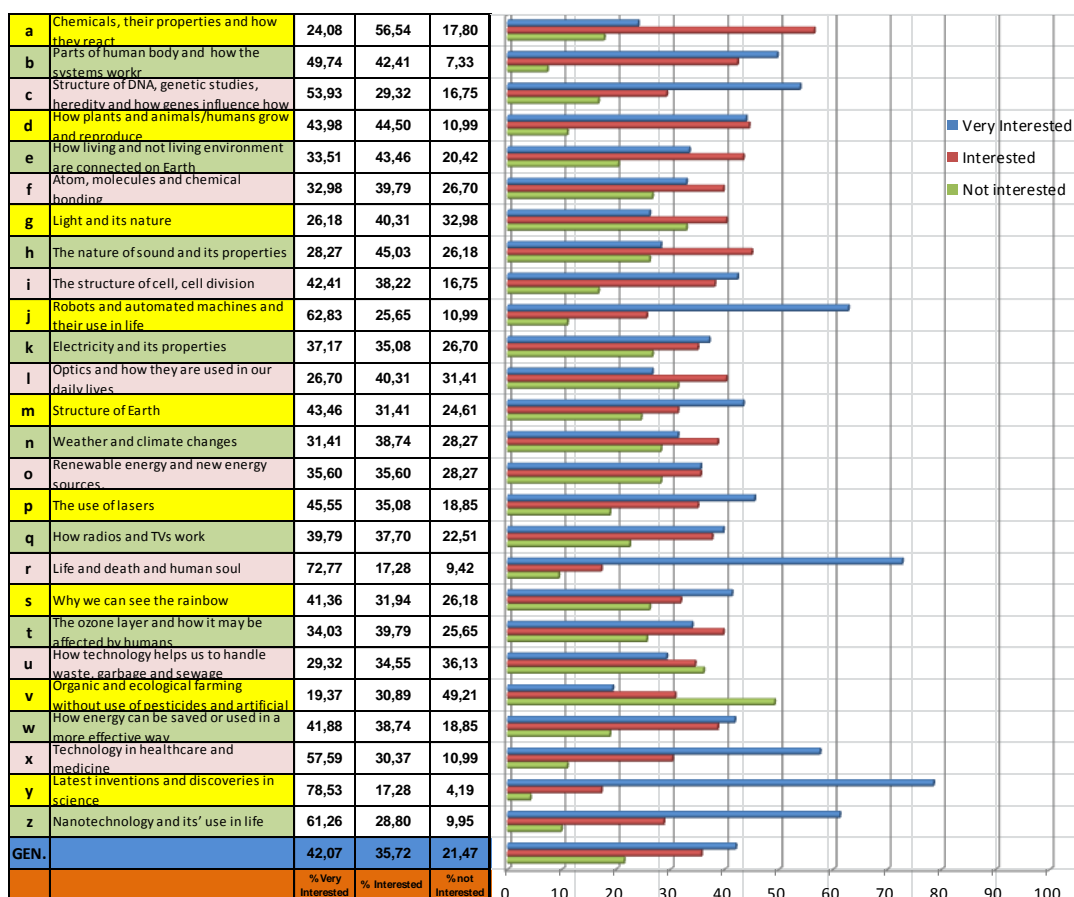
Number of questioned students: **191** -  June 2011.
Questionnaire data processed by: Cafer Arıkan-Doga Schools (Turkey) – June 2011

**Question no. 1:**

**How interested are you in learning about the following in science lessons?**

Results diagram is presented below:

| | | % Very Interested | % Interested | % not Interested |
|---|---|---|---|---|
| a | Chemicals, their properties and how they react | 24,08 | 56,54 | 17,80 |
| b | Parts of human body and how the systems workr | 49,74 | 42,41 | 7,33 |
| c | Structure of DNA, genetic studies, heredity and how genes influence how | 53,93 | 29,32 | 16,75 |
| d | How plants and animals/humans grow and reproduce | 43,98 | 44,50 | 10,99 |
| e | How living and not living environment are connected on Earth | 33,51 | 43,46 | 20,42 |
| f | Atom, molecules and chemical bonding | 32,98 | 39,79 | 26,70 |
| g | Light and its nature | 26,18 | 40,31 | 32,98 |
| h | The nature of sound and its properties | 28,27 | 45,03 | 26,18 |
| i | The structure of cell, cell division | 42,41 | 38,22 | 16,75 |
| j | Robots and automated machines and their use in life | 62,83 | 25,65 | 10,99 |
| k | Electricity and its properties | 37,17 | 35,08 | 26,70 |
| l | Optics and how they are used in our daily lives | 26,70 | 40,31 | 31,41 |
| m | Structure of Earth | 43,46 | 31,41 | 24,61 |
| n | Weather and climate changes | 31,41 | 38,74 | 28,27 |
| o | Renewable energy and new energy sources | 35,60 | 35,60 | 28,27 |
| p | The use of lasers | 45,55 | 35,08 | 18,85 |
| q | How radios and TVs work | 39,79 | 37,70 | 22,51 |
| r | Life and death and human soul | 72,77 | 17,28 | 9,42 |
| s | Why we can see the rainbow | 41,36 | 31,94 | 26,18 |
| t | The ozone layer and how it may be affected by humans | 34,03 | 39,79 | 25,65 |
| u | How technology helps us to handle waste, garbage and sewage | 29,32 | 34,55 | 36,13 |
| v | Organic and ecological farming without use of pesticides and artificial | 19,37 | 30,89 | 49,21 |
| w | How energy can be saved or used in a more effective way | 41,88 | 38,74 | 18,85 |
| x | Technology in healthcare and medicine | 57,59 | 30,37 | 10,99 |
| y | Latest inventions and discoveries in science | 78,53 | 17,28 | 4,19 |
| z | Nanotechnology and its' use in life | 61,26 | 28,80 | 9,95 |
| GEN. | | 42,07 | 35,72 | 21,47 |



- The most interesting topics for students are:

    1. Latest inventions and discoveries in life (%78,53)

    2. Life, death and human soul (% 72,77)

    3. Robots and automated machines and their use in life ( % 62,83)

    4. Nanotechnology and its use in life (%61,28)
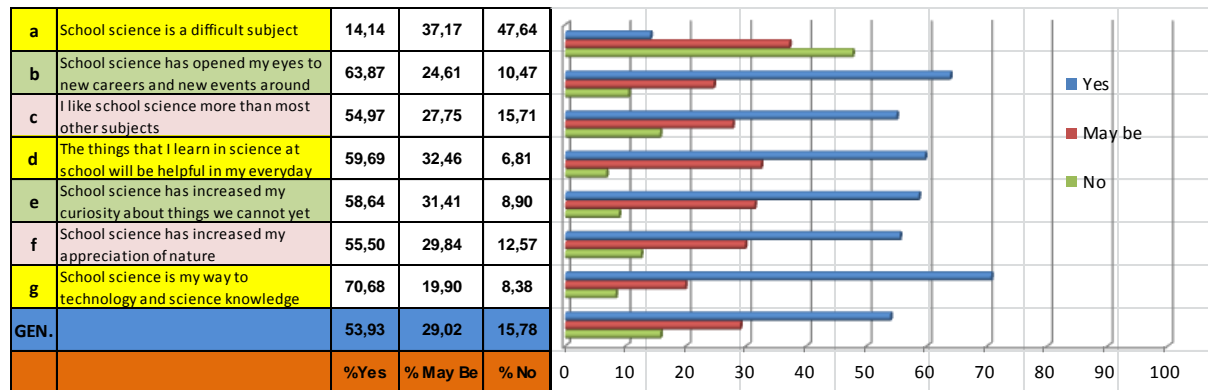
    5. Technology in healthcare and medicine (% 57,59)

6. Structure of DNA, genetic studies, heredity and how genes influence how we develop (% 53,93)

- The less interesting topic for students is chemicals, their properties and how they react. (% 56,54)

**Question no. 2:**

**What do you think about science education in school?**
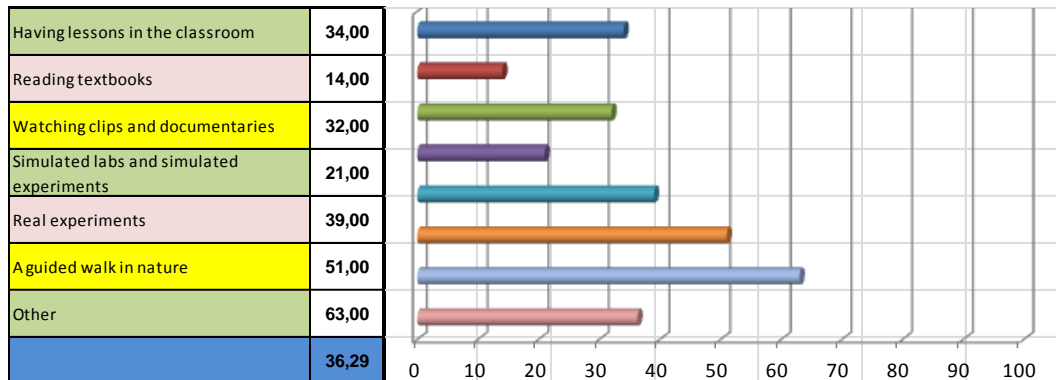
Results diagram is presented below:

| | | %Yes | % May Be | % No |
|---|---|---|---|---|
| a | School science is a difficult subject | 14,14 | 37,17 | 47,64 |
| b | School science has opened my eyes to new careers and new events around | 63,87 | 24,61 | 10,47 |
| c | I like school science more than most other subjects | 54,97 | 27,75 | 15,71 |
| d | The things that I learn in science at school will be helpful in my everyday | 59,69 | 32,46 | 6,81 |
| e | School science has increased my curiosity about things we cannot yet | 58,64 | 31,41 | 8,90 |
| f | School science has increased my appreciation of nature | 55,50 | 29,84 | 12,57 |
| g | School science is my way to technology and science knowledge | 70,68 | 19,90 | 8,38 |
| GEN. | | 53,93 | 29,02 | 15,78 |



- % 70,68 of the students believe that school science is their way to technology and science knowledge.

- % 63,67 of the students think that school science has given them a new vision to new careers and new events around.

- % 59,69 of the students consider that the things that they learn in science at school will be helpful in my everyday life.

- % 58,64 of the students consider that school science has increased my curiosity about things we cannot yet explain

**Question no. 3:**

**I think that a good way to learn more about science and technology is:**

**(please check if you think it is good)**

Results diagram is presented below:

| | | |
|---|---|---|
| Having lessons in the classroom | **34,00** | |
| Reading textbooks | **14,00** | |
| Watching clips and documentaries | **32,00** | |
| Simulated labs and simulated experiments | **21,00** | |
| Real experiments | **39,00** | |
| A guided walk in nature | **51,00** | |
| Other | **63,00** | |
| | **36,29** | |

- %51 of students believe that only that a guided walk in the nature is a good way to learn science.

- % 63 of the students thinks that other ways are good to learn science. These ways are:

  1. Sample lessons with academicians

  2. making researches about defined topics

  3. outdoor lessons

  4. learning more about the interesting and appealing sides of the topic

  5. playing games / educational games

  6. finding out new innovations and experiences of scientists

  7. learning the lesson in a more effective way to become permanent

  8. visual materials

  9. small trips to professional labs

  10. interviews with scientists and academicians

  11. trips to universities and technological fairs

  12. learning with ICT tools

**Question no. 4a:**

**Do you prefer to use of computers and internet to discover and learn aspects related to Science topics?**

Results diagram is presented below:

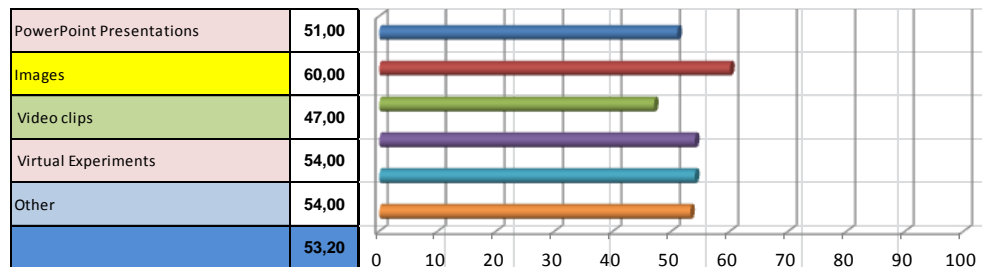| Do you prefer to use of computers and internet to discover and learn aspects related to Science topics? | 80,10 | 18,32 |
|---|---|---|
| | **% Yes** | **% No** |

- % 80 of the students prefer to use computers and internet to discover and learn aspects related to science topics.

**Question no. 4b:**

**If the answer is "YES",**

**Indicate what kind of specific tools you would like to use:**

Results diagram is presented below:

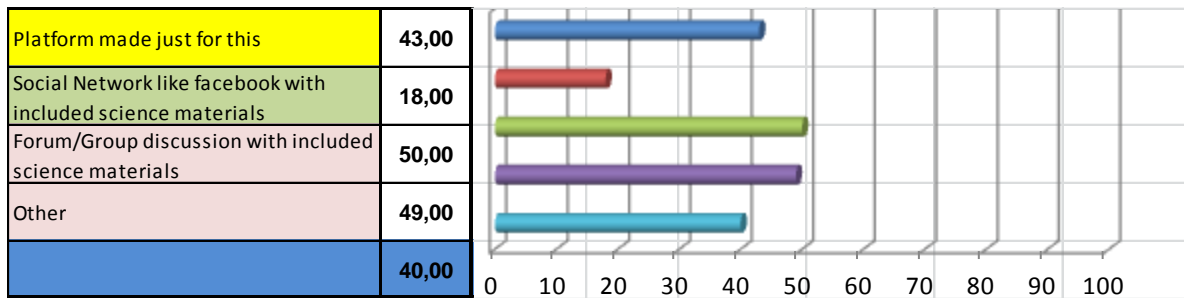| | |
|---|---|
| PowerPoint Presentations | 51,00 |
| Images | 60,00 |
| Video clips | 47,00 |
| Virtual Experiments | 54,00 |
| Other | 54,00 |
| | 53,20 |



- % 60 of the students would like to use images.
- % 54 of the students would like to use virtual experiments.
- % 54 of the students would like to use other, like; encyclopedias and scientific books, real experiments, technological experiments, scientific sites of NASA, communicating with teachers and other students from other countries through skype.
- % 51 of the students would like to use power point presentations

**Question no. 5:**

**Choose which kind of specific environments do you like to use for this purpose:**

Results diagram is presented below:

| | |
|---|---|
| Platform made just for this | 43,00 |
| Social Network like facebook with included science materials | 18,00 |
| Forum/Group discussion with included science materials | 50,00 |
| Other | 49,00 |
| | 40,00 |



- % 59 of the students would like to use forum/ group discussions with included science materials.
- % 49 of the students would like to use scientific blogs, twitter and related web pages.