

TURTLES



Students:

1. Olzhas Toktassynov
2. Al-Aziz Magauyanov
3. Yernur Zhumabaev
4. Gleb Dobrednev



Saving Energy at Home



About project:

- Time Frame : 6 weeks
- Working with Group
- Solving Problems
- Critical Thinking



1st week



Plans:

- a) Introduction to PBL
 - b) Entry event presentation
 - c) Making group contact
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- First week's tasks:
 - ✓ Amount of energy consumption at home per day during a week
 - ✓ Complete worksheet #1

Results of 1st week:

10:00 16:00	Mon day	Tues day	Wedn esday	Thurs day	Fri day	Satur day	Sun day
initial	112520 kW*h	112536 kW*h	112552 kW*h	112569 kW*h	112584 kW*h	112599 kW*h	112618 kW*h
final	112528 kW*h	112545 kW*h	112559 kW*h	112575 kW*h	112592 kW*h	112611 kW*h	112628 kW*h
Diffe rence	8 kW*h	9 kW*h	7 kW*h	6 kW*h	8 kW*h	12 kW*h	10 kW*h
Cost 1kW*h	8.54 tg	8.54 tg	8.54 tg	8.54 tg	8.54 tg	8.54 tg	8.54 tg
Total cost	68.32 tg	76.86 tg	59.78 tg	51.24 tg	68.32 tg	102.48 tg	80.54 tg

2nd week



Plans:

- a) Analyze the table of energy consumption at home per day during a week
 - b) Calculate the cost of energy consumption
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- Second week's tasks:
 - ✓ DST presentation
 - ✓ Energy consumption by devices separately during a week
 - ✓ Complete worksheet #2

Results of 2nd week:



3rd week



Plans:

- a) Check presentations
 - b) Explain the efficiency of energy usage and power calculations with their cost
 - c) Show types of bulb and their advantage and disadvantage
 - d) Own saving plan
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- Third week's tasks:
 - ✓ Find out power of each device from worksheet #2
 - ✓ Calculate the amount of energy used by each device in one week
 - ✓ Find the cost
 - ✓ Make table and graph in excel
 - ✓ Complete worksheet #3

Results of 3rd week:



4th week:



Plans:

a) Make a debate for ways of saving energy

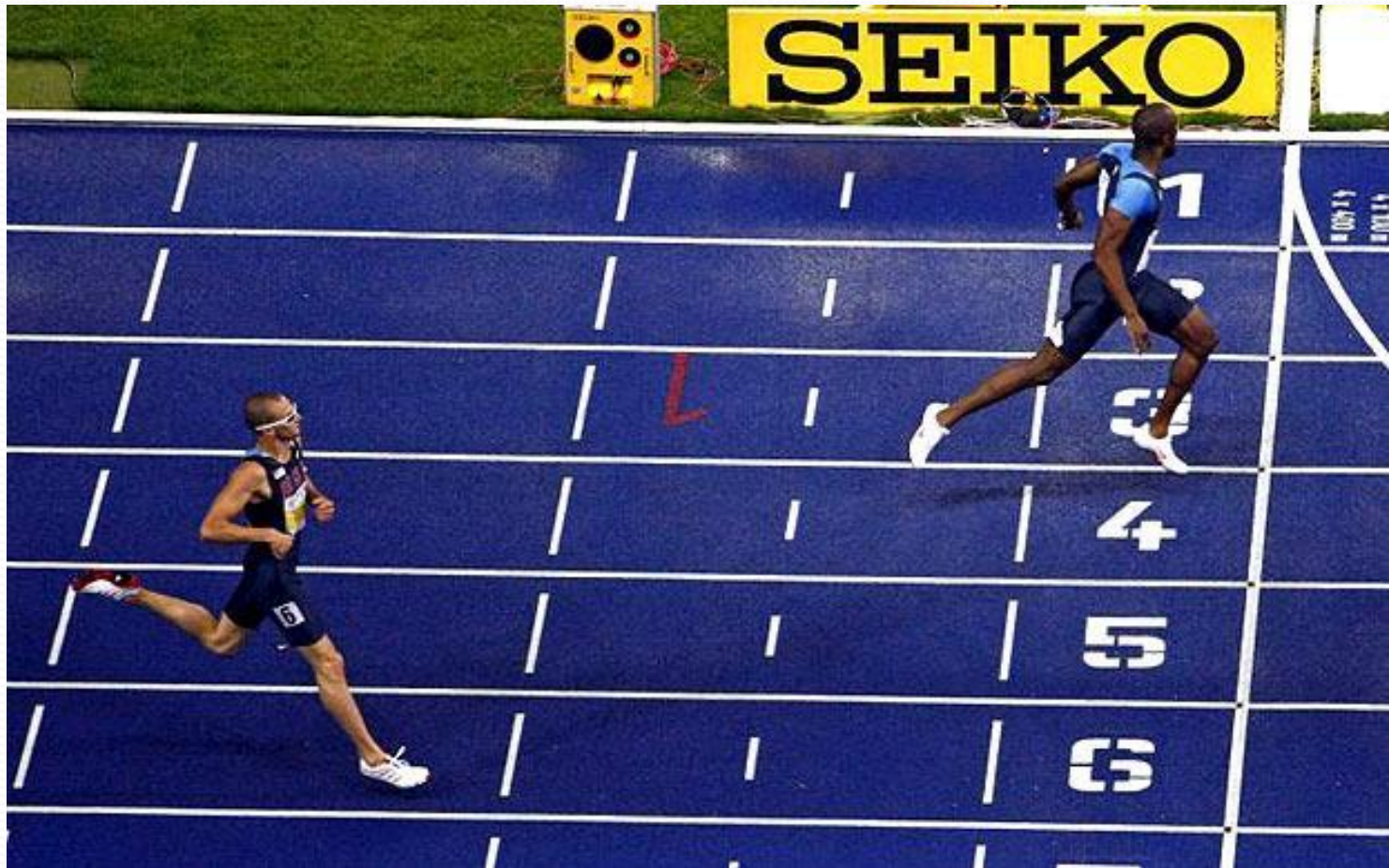
□ Fourth week's task:

✓ Generate and apply energy saving plan in their research areas

Results of 4th week:



5th week:



Plans:

a) Analyzing the tables and graphs

□ Fifth week's tasks:

- ✓ Retake the data of energy consumption by devices and in general
- ✓ Compare second data collection with previous one
- ✓ Final report
- ✓ Suggestions

Results of 5th week:



6th week



THANKS FOR ATTENTION!!!

