

# TURTLES



# Students:

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# Saving Energy at Home



# About project:

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



# 1<sup>st</sup> week



# Plans:

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

# Results of 1<sup>st</sup> 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

2<sup>nd</sup> 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 2<sup>nd</sup> week:



# 3<sup>rd</sup> 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 3<sup>rd</sup> week:



# 4<sup>th</sup> week:



# Plans:

a) Make a debate for ways of saving energy

□ Fourth week's task:

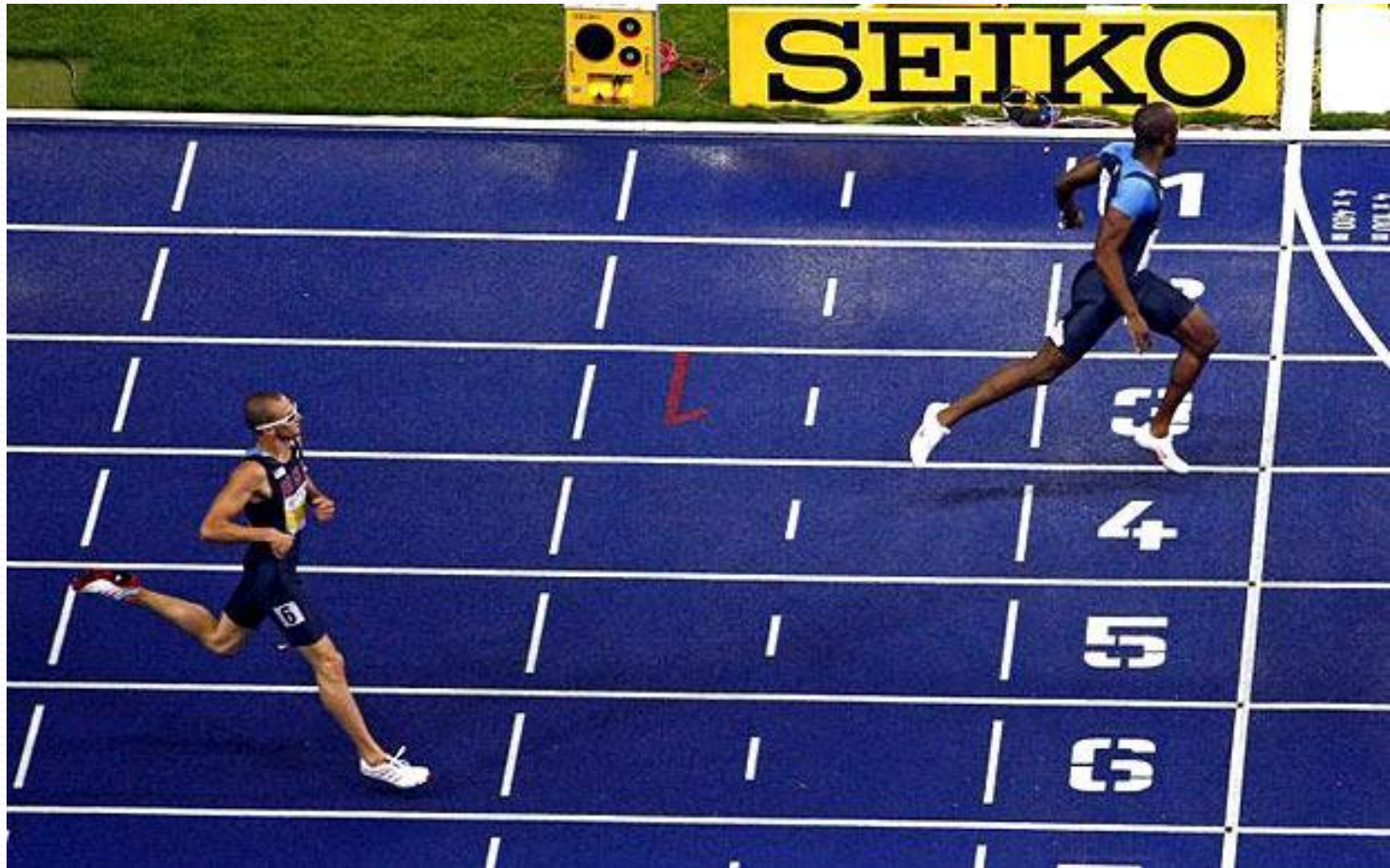
✓ Generate and apply energy saving plan in their research areas

# Results of 4<sup>th</sup> week:





# 5<sup>th</sup> 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 5<sup>th</sup> week:



# 6<sup>th</sup> week



THANKS FOR ATTENTION!!!

