

### The Hypothesis

Our project aimed at making a journey with the children through which they would apply Math to everyday situations, such as going to the movies, solve





actual everyday math problems and eventually love it by expressing themselves psychomotorly through role plays, while in the meantime gain knowledge in problem solving.



## Main objective Skills

A Case Study in which students will

- practice in calculationsativity,
- develop a critical waymofryhinking and learn how to jackly meith, real situations enhancing by irajudementing, and imagination. imagination.
- work on specific patterns that reflect real challenging situations.

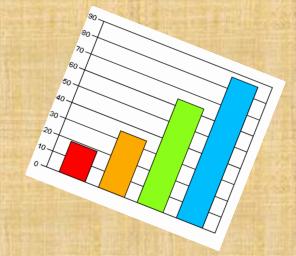


# Cognitive Goals



#### Studient parableld grams.

- design cal formulations in general telepiped and cylinders.
- formulate and solve mathematical evaluates offers and calculate problems while visiting a cinema.
- make bar charts.
- place the audience of a movie theatre into their seats given some restrictions.





# Sychomotorly Goals

#### Students will

Children express themselves vertiathe and depilet the challenging situations that they are earlief to asons carry through acting as the clerk, the salesmen, the usher, the audience, the statistical services' employee applies to simple, everyday

situations, such as going to

the movies.



**Grade Level** 

6<sup>th</sup> grade

Subject

Math - Decimal numbers, Fractions, Percentage-Discounts, Statistics, Statistic Charts, Plane shapes, Parallelepiped, Solids.

Educational software and links to educational websites:

Educational software DALEST, enroll an educational math-related website www.brainpop.com

**Generative topics** 

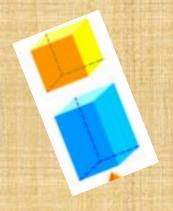
- students split in groups,
- based in role playing
- focused on challenging situations such as going to the movies (Realistic Mathematics)

#### **Role Playing**

• Students split in groups.

Some of them play the clerk and the salesmen, others the usher, some the statistical services' employee and others the audience.





#### **Designs**

They design formulations (cubes, parallelepiped and cylinders) to create the appropriate solid geometric shapes that they could use as candy boxes, pop corn tubes and cans for soft drinks.



#### The ushers

They have to find out the strategies Math Journal will lead them mathematically to placing the audience correctly Every teaching hour concludes with filling the given the restrictions mentioned on Math Journal where istudents desired in wwards are what they have learned is to but people to their mathematics problems that they could seats without changing places encounter while purchasing things at the ent). concession stand of a movie theatre or the cashier depending on their role.



#### The Statistical Service

 They write down the products that the audience has bought before the film to consume during the screening and perform a brief statistics research on the percentage of students that have purchased various products using bar charts as described in the spreadsheets.

#### The audience

They calculate tickets
 prices, percentage discounts
 on various products and find
 value-for-money offers.



#### **Clerks and Salesmen**

- They display the pric that they have already as well as the offers'
- All the students are g paper money that the use during the activities





# Thank you! We are glad to answer any of your questions!

#### Watching a Film

• Students are going to entertain themselves with a movie strongly mathrelated, 'Alice in Wonderland'.