



Erasmus+



“SCIENCE 4 ALL”

“How to make cross-curricular  
teaching a reality in our schools”

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*“The flexible management curriculum project aims to promote a gradual change in curriculum management practices. It aims at improving the effectiveness of the educacional response to problems arising from the diversity of school contexts and ensure that all students learn more and more significantly.”*

D.E.B, Ministry of Education, 1999



# Why work in cross-curricular teaching?



**Good teamwork Vs Bad teamwork**

# Why work in cross-curricular teaching?

It provides a set of skills that prepare students to:

- ↪ Solve problems;
- ↪ Ask questions;
- ↪ Search appropriate answers;
- ↪ Manage conflicts;
- ↪ Team work;
- ↪ Make decisions.



# How?

By developing multidisciplinary projects.



They allow the acquisition of knowledge and development of skills in scientific, artistic, technological, social and sports subjects.



# How?

## Multidisciplinary projects



Allow the acquisition of transversal skills arising from research work, information record, text production, oral and written communication, problem solving, spatial location, fine motor skills and other, properly framed in the demands of today's world.



## Organizational aspects to take into consideration:

- a) The curricular organization built around themes binders
- b) The definition of different methodologies and activities
- c) The appreciation of the practical and experimental knowledge



Organized according to the students characteristics and interests



Privileging activities and projects in partnership with local entities



# Players

## Teachers:

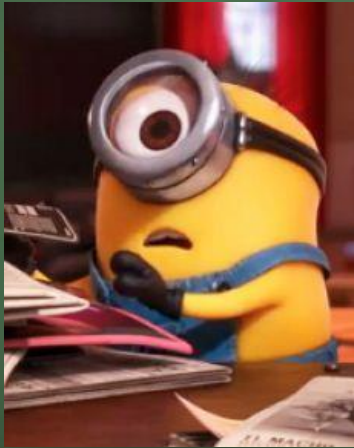
- ↪ Set the boundaries;
- ↪ Supervise the work;
- ↪ Prepare the pedagogical project.



# Players

## Students:

- ↪ Search information by themselves;
- ↪ Do research;
- ↪ Collect data.



# Identifying a topic

## Step 1

More than just to “look nice” it is necessary to encourage the participation of all.

What do we do?

**WHAAAA?!?!**

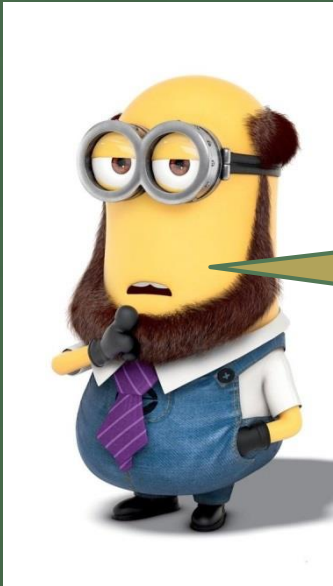


# Interdisciplinarity

What contribution can  
my subject give?



Which contents can  
enrich the project?



# Planning

## Step 2

How do we do it?

Set goals

Choice of materials



# Planning

## Step 2



Which resources  
do we have?

Which problems  
do we have?

Which tasks do  
we have to do?

How will we get  
organized?

Who can help us?

# Project work

## Step 3

↪ Topic development

Lets do it?

Establishment of working groups

Distributions of tasks

Research work, organization and task  
accomplishment

**JUST DO IT.**  
✔  
**JUST DO IT.**  
✔  
**JUST DO IT.**  
✔

# Intermediate evaluation

## Step 4

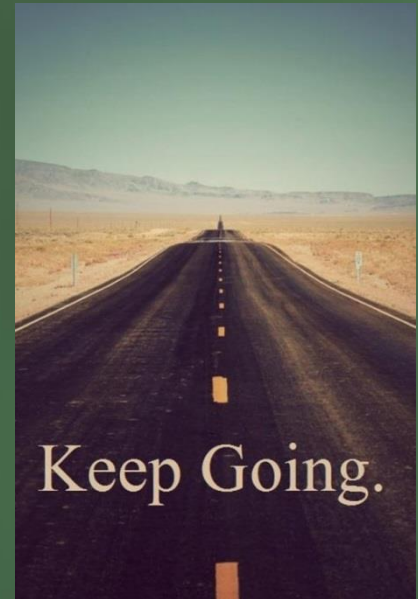
↪ Exchange of ideas

How are we  
doing?

Assess the degree of task accomplishment

Identification of obstacles and problems

Evaluate the group progress and behavior



# Final Product

## Step 5

↪ Presentation of the project to the educational community

What have we accomplished?



# Final Evaluation

## Step 6



How was the work?

- ↪ Self-assessment of the work produced and group functioning;
- ↪ Evaluate the work produced by other groups.





Our project

# The class

7°A

15 students

5 boys  
10 girls

12 - 15 yers-old



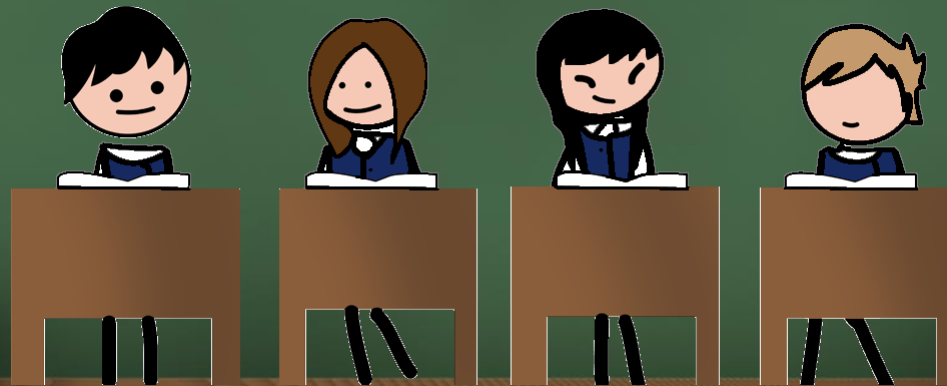
6 NEE



All of them have retentions at least, one year during their school career.



NEE-special educational needs

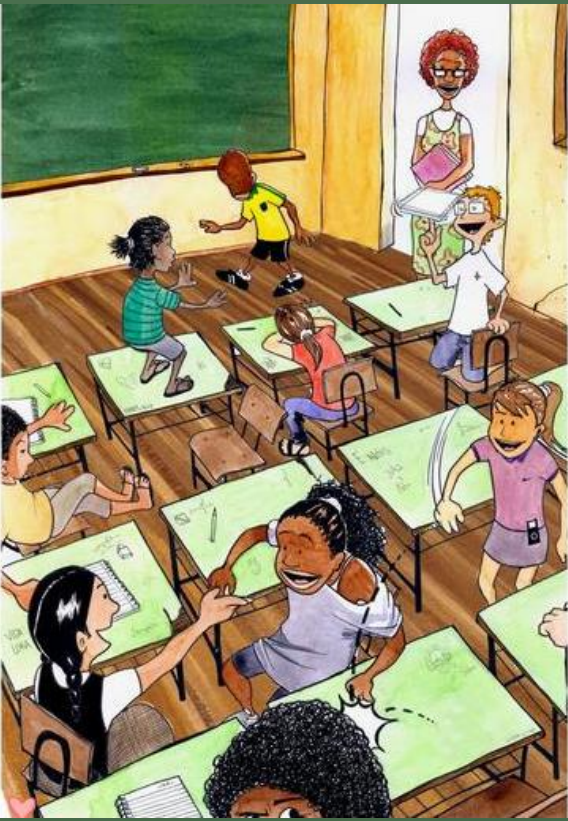




7ºA



# Which students?



- ↪ Unmotivated face to school;
- ↪ Uncommitted;
- ↪ With different interests from school;
- ↪ Difficulties to follow rules;
- ↪ Attendance problems;
- ↪ Dropout risk.



# Our goals

- ↪ To overcome repeated school retention situations;
- ↪ To overcome integration problems in the educational community;
- ↪ To motivate students towards school.



# Our goals

Develop skills in the following fields:

- ↪ teamwork;
- ↪ rules compliance;
- ↪ Adoption of healthy lifestyles;
- ↪ ethics and values.



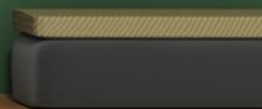
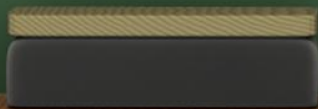
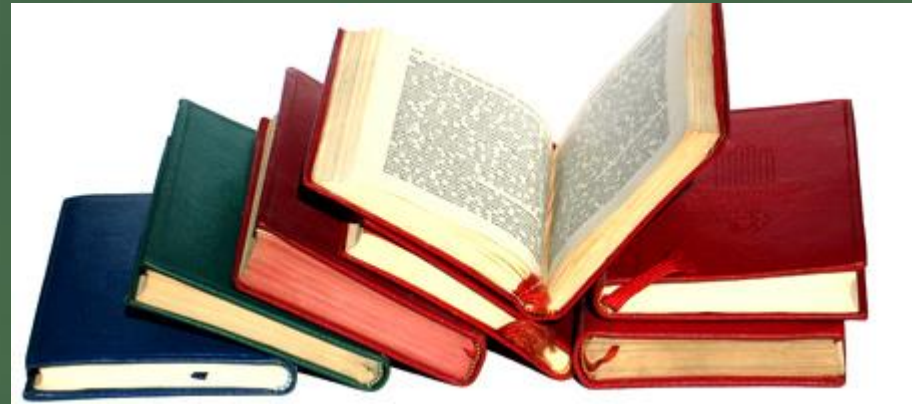
# The project – Newspaper wall



## The contribution of each subject...



Writing of short stories and retellings...

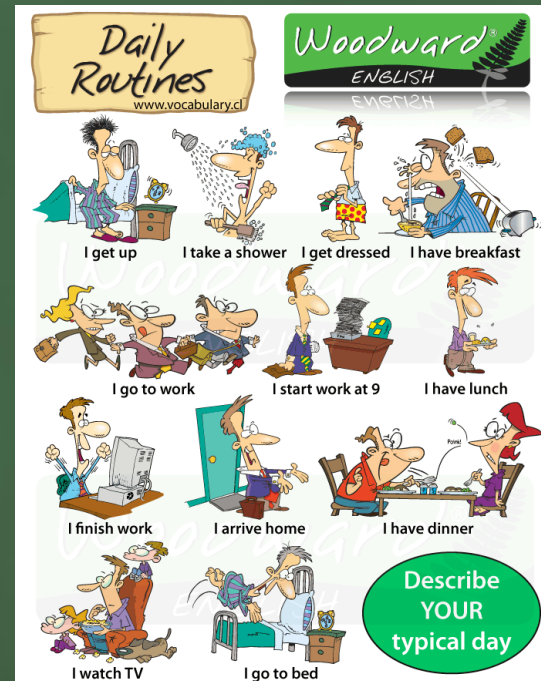


The contribution of each subject...



Carrying out work on the daily routine

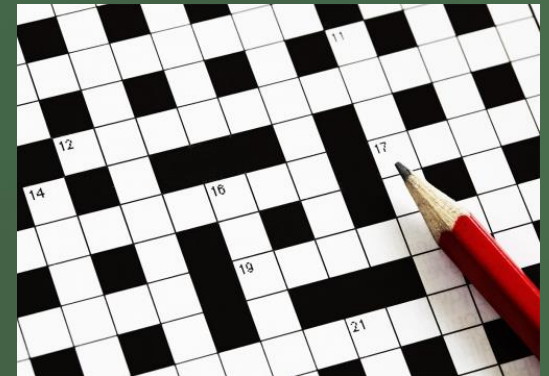
My daily routine



# The contribution of each subject...



Crossword or word search  
Topic: e.g Christmas



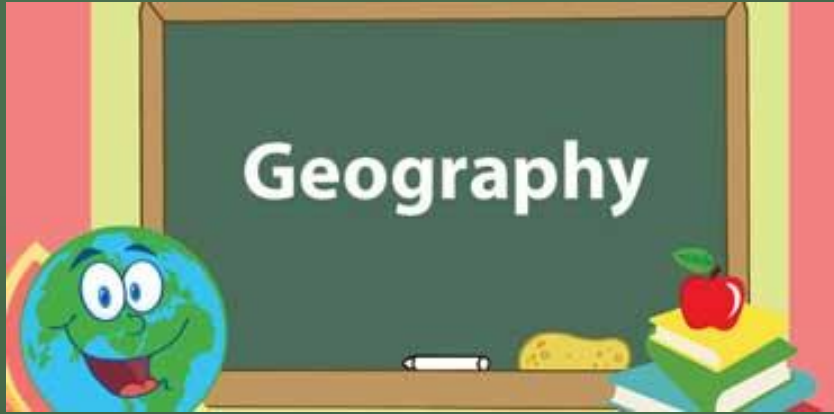
## The contribution of each subject...



**Children's tale about the first inhabitants of Sintra**



# The contribution of each subject...



Our school landscape:

Protos Description



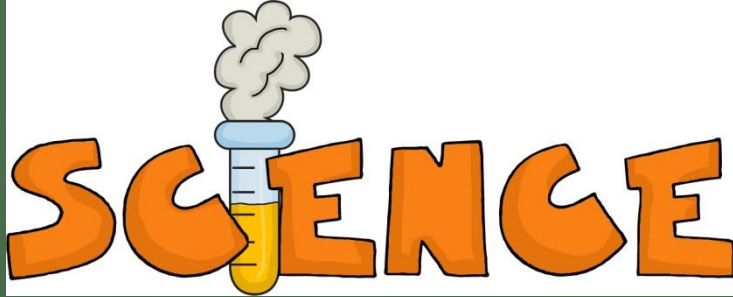
# The contribution of each subject...



## Mathematical games

16	5X1	5	3X5	15	9X3
27	4X7	28	7X5	35	6X7
42	9X6	54	6X10	60	9X7
63	8X10	80	9X10	90	5X5

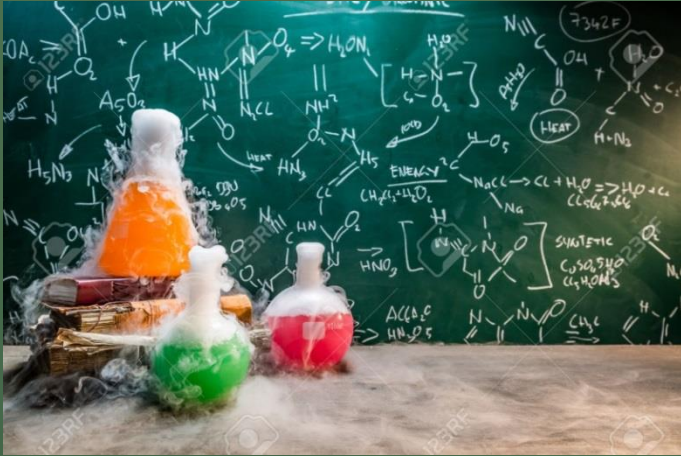
The contribution of each subject...



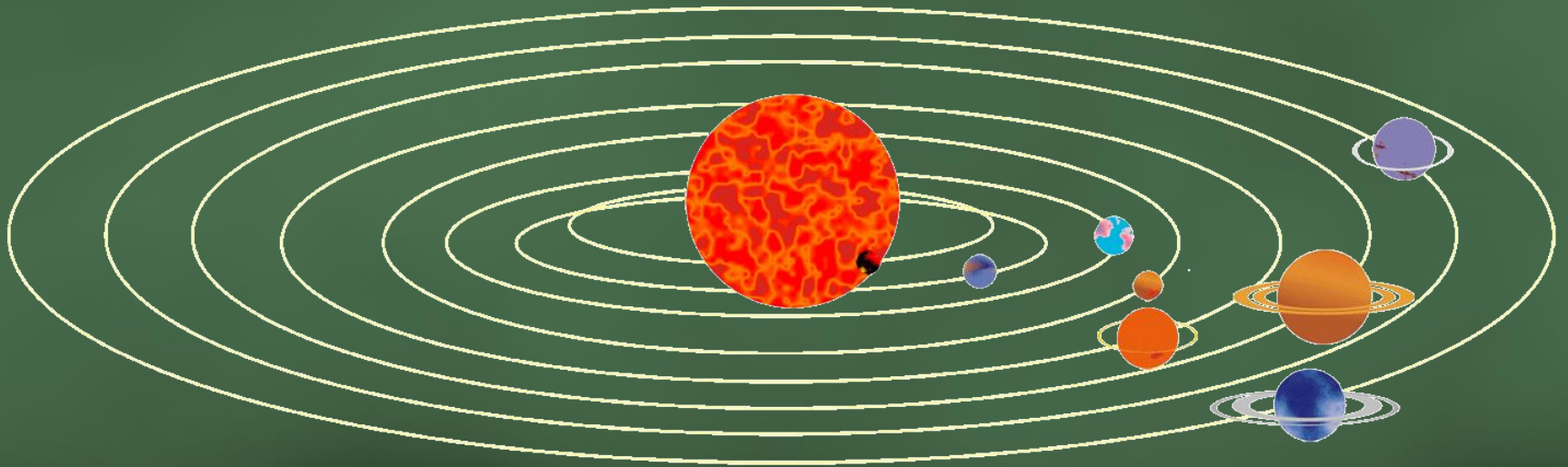
Volcano Facts



# The contribution of each subject...



## Trivia about planets



The contribution of each subject...



Artwork



# The contribution of each subject...

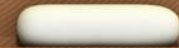
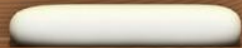
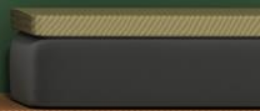
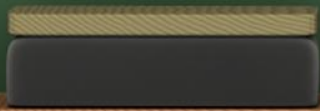


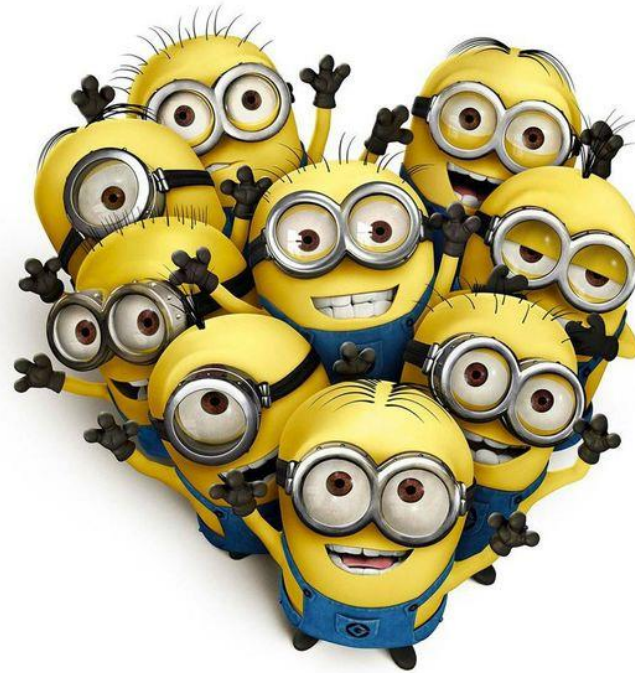
## Newspaper formatting



Meetings of the pedagogical team  
every 2 weeks to assess strategies







**THANK  
YOU!**