

The *Gozo goes Mathracy* project: Linking Maths and Literacy through a College Based Approach

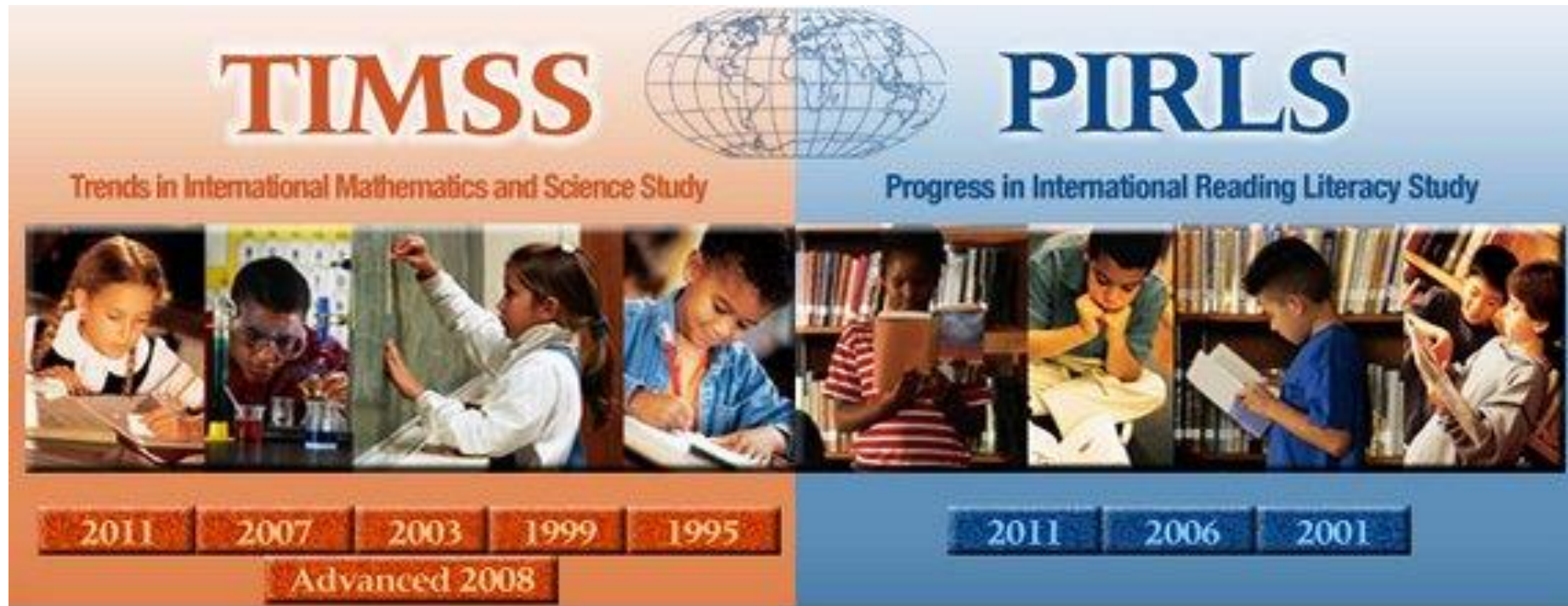


Ms. Elaine Ciantar
Head of Department Primary (Literacy)

What is the *Mathracy* project?

- Evidence that Maths and Literacy components are **extrinsically** and **intrinsically** linked across different age groups.
- A **link** between cross - curricular activities and everyday life.
- Strengthening the link between **College led initiatives** and **the home environment**.

The *Gozo goes Mathracy* evolved from local results in International testing



Our students are confident in the knowledge domain where **knowledge is presented directly** but find difficulty to **apply the taught knowledge to connect to new thinking.**

The **Gozo College** embarked on a Project to help our students **make the connections through a hands-on approach by linking Maths and Literacy concepts.**

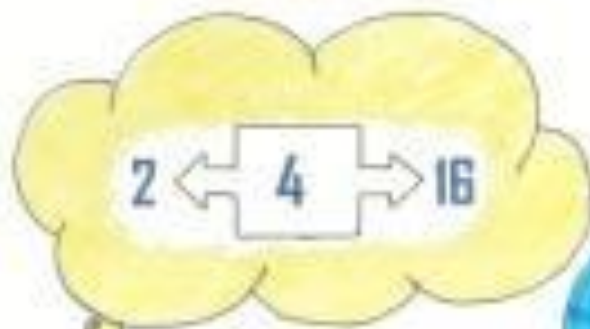
Three main concepts were elicited:

- **Visualise**
- **Connect**
- **Make judgements**





Connect



Make judgements



Gozo goes

Mathracy

Maths - Literacy

Visualise



*Angela
Wain*

Visualise



Connect



Make judgements

The Literacy Aspect: three main components for the development of **comprehension skills** where the main aim is to help students develop **high order thinking skills** by asking high order questions and applying taught concepts (curriculum) to everyday situations.

The Maths component: students are encouraged to **think, investigate** and be able to develop **problem solving skills** by applying taught concepts (curriculum) to hands-on situations.

The *Gozo goes Mathracy* portfolio.....

- **13th – 15th April 2015** : Gozo goes Mathracy at Ta' Magro food factory for Year 6 pupils
- **11th – 15th May 2015**: Gozo goes Mathracy at the Lunzjata Valley for year 1 students and their parents.
- **15th – 19th February 2016**: Gozo goes Mathracynew ventures with PSCD for year 6 students and their parents.

Gozo goes Mathracy at the Lunzjata Valley



Mathracy at Lunzjata Valley



Name: _____

Year 1

The three main components (Literacy):

- Visualise



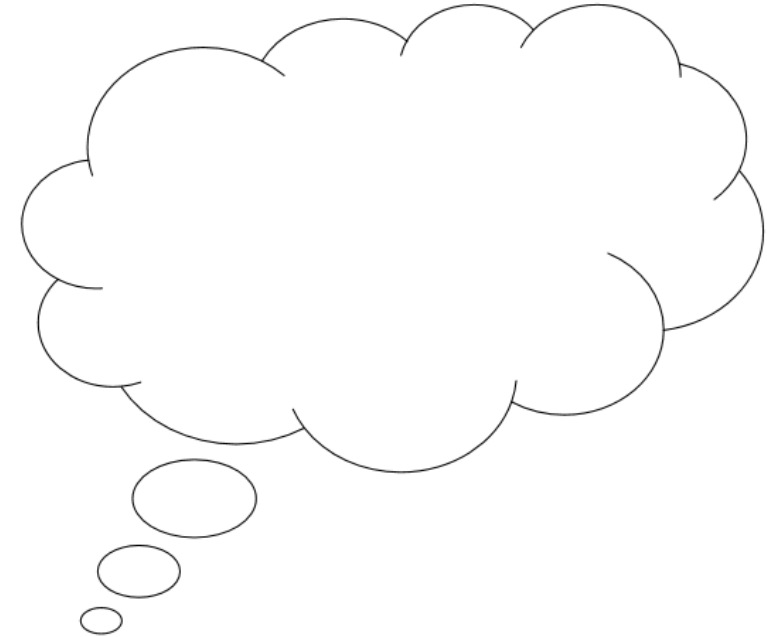
A

Visualise! Visualise!

Listen and think, nothing more, nothing less

Make pictures in your head, try your best guess!

I might see.....  I might hear..... 



_____	_____
_____	_____
_____	_____







- Connect



Connect and test your best B guess!

Connect with your drawings on page 1.

Tick ✓ or X in the boxes.

bird		
trees		
water		
flowers		
soil		
bugs		

- Make judgements



**Draw a fabulous new
observation!**

The three main components (Maths):

- Visualise, Connect



Think wisely to estimate
brightly!



Estimate:

How old is Saint Joseph?

less than 5 years

more than 5 years

How old is Baby Jesus?

less than 5 years

more than 5 years

Look at the name **LUNZJATA VALLEY**.



There are: Vowels

Consonants

Number of footsteps.

Estimate: footsteps

Measure: footsteps

Using an adult foot, I need more or less footsteps?
Why?

- Make judgements



E

Butterfly, butterfly
fluttering your wings,
help us discover
symmetrical things!

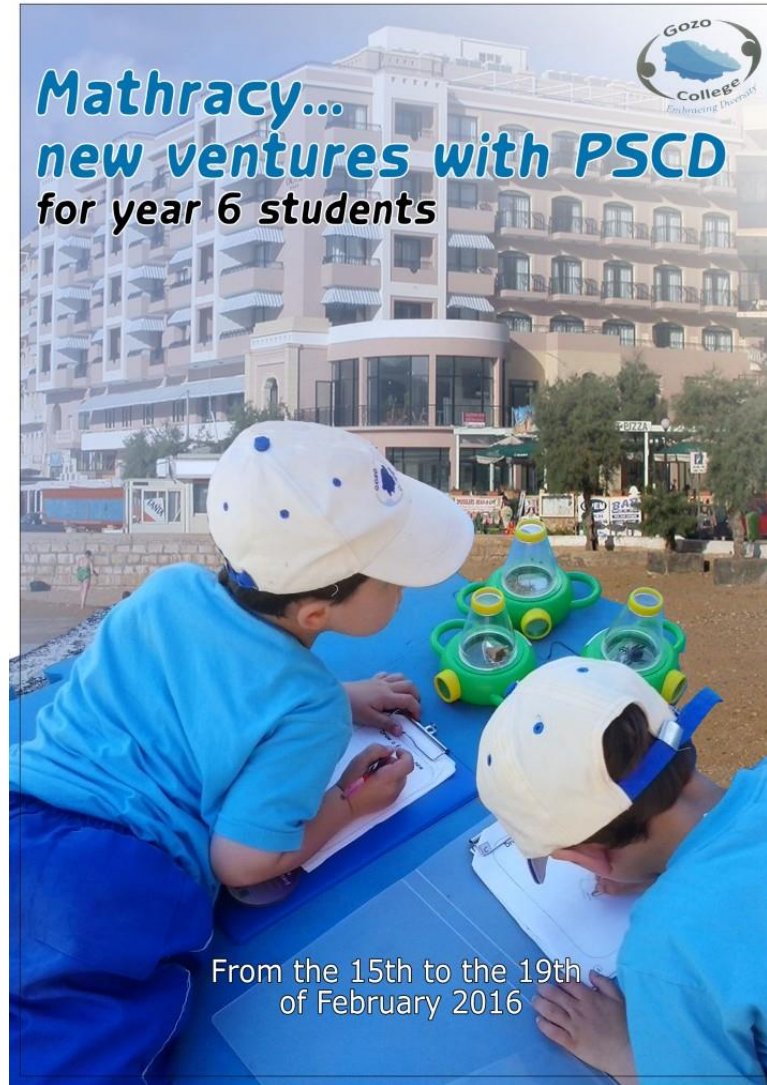
Circle pictures that are symmetrical.

The image contains ten line drawings arranged in a grid-like fashion. The drawings are: a butterfly (symmetrical), a banana (not symmetrical), a heart (symmetrical), a snail (not symmetrical), a frog (symmetrical), an Easter egg with a zigzag pattern (not symmetrical), a hand (not symmetrical), a gingerbread man (not symmetrical), and an apple (not symmetrical).

Parental involvement



Gozo goes Mathracynew ventures with PSCD




The three main components (Literacy):

- Visualise




7 things I would like to know about a...

Manager - Chef - Receptionist - Waiter - Maid



A diagram with a central star shape and seven empty boxes for notes, connected to the star by lines. The boxes are arranged as follows: two on the top left and right, two on the middle left and right, and three at the bottom (one centered, one on the left, one on the right).



HOTEL CALYPSO

CORO

- **Connect**



Interview to a _____
(First Draft)

1. _____ ?

2. _____ ?

3. _____ ?



- Make judgements



The three main components (Maths):

- Visualise



Station B: Pool Area

Choose the appropriate tool to measure the dimensions of the pool to the nearest whole number.

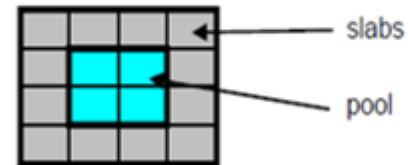


Length: _____ Breadth: _____

a) Calculate the area of the pool

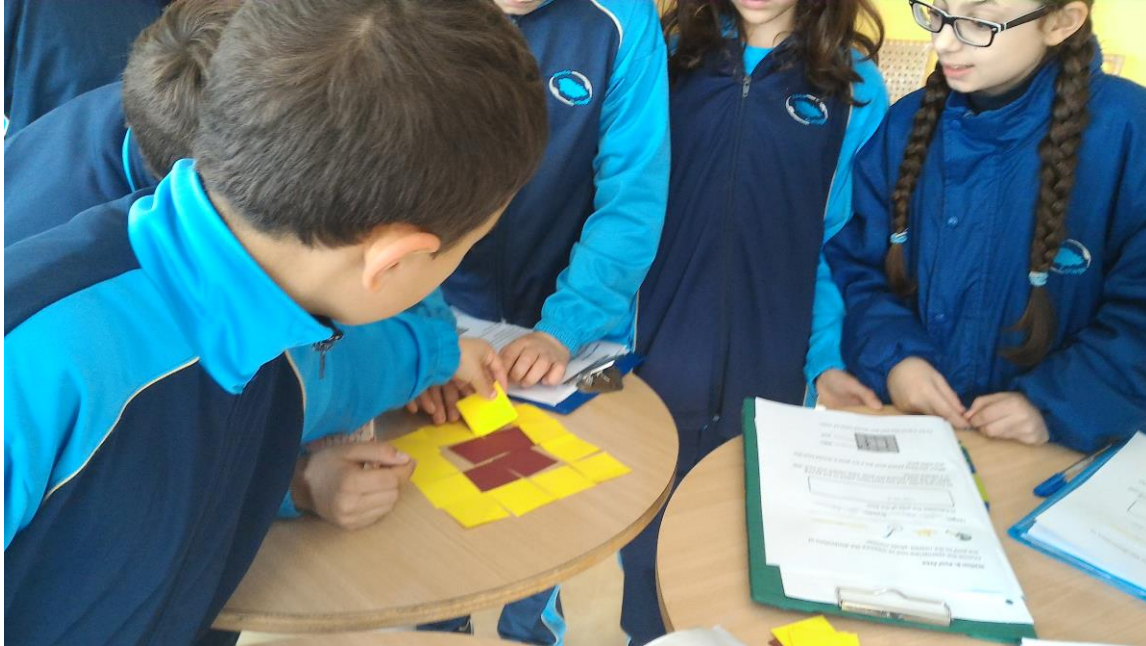
b) You are a tiler and you have been asked to put paving slabs all the way around this pool. Each square and each slab is 1 square meter.

When you have paved your 2m x 2m pool it should look like this slabs pool.



So for a pool this size you would need 12 slabs.

- # Connect



How many slabs would you need for a pool 3m x 4m?

How many slabs would you need for this pool?
4m x 5m

Can you describe the rule?

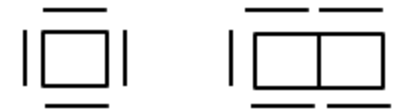
- # Make judgements



Station A: Restaurant Seating Area

The hotel management need your help in planning the seating arrangement for a 24-member family reunion.

Around each small table four members could be seated. You can rearrange tables into different rectangles so that more people could sit together.



What different table arrangements are possible?

Which arrangement would use the fewest tables?

Which arrangement would use the most tables?

Parental involvement



The *Gozo goes Mathracy* is an evolving project. It is being further developed.....

- Through curriculum time meetings where links between Maths and Literacy are being discussed and implemented.
- Through links within the schools' SDP where SMT and teachers implement strategies where Maths and Literacy skills are being embedded.
- Through parental workshops where parents are encouraged to link Maths and Literacy through a hands-on approach.

The *Gozo goes Mathracy* is not an easy project.

It takes a lot of planning and problem solving skills in order to make such a project a success story.

However.....

- Risk taking
- Perserverance
- Support

help us look forward to other ventures through the Mathracy project

Parental feedback

“Merging Maths and Literacy concepts through hands on activities makes learning more realistic and fun”

“In such activities, children interacted and participated a lot. Great satisfaction as a parent to see full participation”

“This is beneficial because it involved hands on activities. School children should have more hands on activities such as these during the scholastic year”

“Keep up this great practice. I’m very much aware that this takes a lot of planning/organisation and teamwork. Well done! Thankyou for your dedication and support”

Ongoing support for the Project:

- The Gozo College Principal, Mr. Galea and the E.O Gozo, Dr. Sciberras
- The various schools within the College
- The parents
- The students

