What is UCMAS

- Universal Concepts of Mental Arithmetic Systems
- Founded in 1993 at Malaysia by Dr. Dino Wong
What is UCMAS

- World known **brain development** program for primary school students
- UCMAS is **not** a mathematics program
- UCMAS is implemented in more than 6000 centers and 80 countries worldwide, including
  - USA, Canada, England, Spain, Germany, Russia, Malaysia, India, China, Australia, Japan, etc
WHAT IS UCMAS

- The brain is triggered from the interaction of the hands’ fingers and the brain
- Each finger maps directly to each of the 5 brain sections, with the left and right hands mapping inversely to the 2 brain hemispheres
WHAT IS UCMAS

- UCMAS is based on the usage of the **abacus**, where the child uses the fingers from both hands to move the beads on the abacus.
What is UCMAS

- The children learn
  - Initially to do calculations using an **actual abacus** which is in front of them
  - And then use a **virtual/imaginary abacus** which is in their mind
UCMAS STARTING AGES

- Grade 1 to grade 6 of primary school
- Where the brain is at its development stage, hence the children gain the maximum benefits
- They can finish it during High School
**WHAT DOES A CHILD BENEFIT FROM UCMAS**

- *Improve memory:*

  This is achieved by the effort done by the child to **imagine the beads moving** in a specific order, hence increasing the child’s photographic memory.
WHAT DOES A CHILD BENEFIT FROM UCMAS

- Increase in auditory skills:

  This is achieved by the effort done by the child to respond quickly to verbal instructions that have to do with solving arithmetic calculations.
What does a child benefit from UCMAS

- *Increase in concentration/focus:*

  This is achieved by the effort done by the child to visualize the abacus and the changes done on the beads at every stage, while ignoring environmental noise and other distractions.
WHAT DOES A CHILD BENEFIT FROM UCMAS

- *Increase in concurrency and simultaneous tasks ability:*

  This is achieved by the effort done by the child to simultaneously
  - listen
  - imagine
  - think
  - give the answer to complex and concurrent arithmetic calculations
WHAT DOES A CHILD BENEFIT FROM UCMAS

- Improve mathematical perception and ability:

This is achieved when the child visualizes the virtual/imaginary abacus in their mind, giving incredibly fast and accurate responses

- Your child will be able to perform mathematical calculations of addition, subtraction, multiplication, division and square root
- All of these will be done using large numbers without the use of a calculator and without the abacus
WHAT DOES A CHILD BENEFIT FROM UCMAS

*Increase in self esteem and self confidence:*

With the increase in mathematical perception and ability, your child will no longer be afraid of numbers and mathematics in general.
WHAT DOES A CHILD BENEFIT FROM UCMAS

- *Improvement in the overall academic performance:*

  When a child has high self esteem and high self confidence in relatively difficult topics, such as mathematics, *your child will feel different, that he/she is better than other children* and this propagates to the rest of the school lessons, resulting in better performance in all classes.
THE CHILD AS AN ADULT

- The benefits the child has gained through UCMAS, remain in life as an adult, no matter how many years pass by.
Research about UCMAS

- Research by the University of Manchester (UK)
- 3185 children ages 7 to 11, after an intensive UCMAS program for 34 weeks, 1.5 hours per week, showed *increase in the IQ of the children*
Research about UCMAS

- Research by the University of California San Diego – UCSD (USA) & Massachusetts Institute of Technology – MIT (USA)
- 400 children after being trained on UCMAS, had an advantage in mathematical calculations, they became more accurate and faster compared to children that did not attend the UCMAS program
UCMAS LEVELS

- UCMAS 1: Foundation
- UCMAS 2: Basic, Elementary A
- UCMAS 3: Elementary B, Intermediate A
  - The virtual abacus in their mind is becoming visible in children after completing this level
- UCMAS 4: Intermediate B, Higher A
- UCMAS 5: Higher B, Advance
- UCMAS 6: Grand A, Grand B
## UCMAS Levels

<table>
<thead>
<tr>
<th></th>
<th>UCMAS 1</th>
<th>UCMAS 2 up to 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>School class</td>
<td>A’</td>
<td>B’ and up</td>
</tr>
<tr>
<td>Years to complete</td>
<td>5.5</td>
<td>5</td>
</tr>
<tr>
<td>Sessions per week</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Class duration</td>
<td>1 hour</td>
<td>1.5 hours</td>
</tr>
<tr>
<td>Modules done per year</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Exam cost per module</td>
<td>€85</td>
<td>2 x €85</td>
</tr>
</tbody>
</table>
UCMAS EQUIPMENT

- For each module, the student gets
  - 1 examination (€85)
  - 2 books (free)
    - You can see book samples on www.ucmas.com.cy
  - 1 answers book (free)

- For the first module, the student also get free
  - Bag
  - Time piece
  - Small abacus
EXAMINATION

- Students get access to the UCMAS electronic exam demo system, so that they can do further practice at home.
EXAMINATION

- The exam is mandatory and is conducted over the Internet with immediate results.
- Successful candidates of the worldwide approved UCMAS examinations, receive their corresponding module certificate from Malaysia.
How is a UCMAS class done

- UCMAS is 100% practical
- The instructor will use the big abacus to explain the day’s lesson
- The students will come to the board to use the big abacus to confirm they understood the day’s lesson
How is a UCMAS class done

- Timed exercises in writing numbers in their books (speed writing)
- Use of flash cards where the students will need to identify numbers and speak them out loud
**How is a UCMAS class done**

- **Timed** exercises using the small abacus, where the student needs to solve **on paper exercises** from their books.
- **Timed** exercises using the small abacus, where the student needs to respond to **verbal exercises** as given by the instructor.
HOMEWORK

- In order to achieve the UCMAS benefits, as explained earlier, children need to do homework of about 1 hour per week.
- This factor is critical in the success of the UCMAS program.
OTHER FACTORS AFFECTING UCMAS SUCCESS

- Absences or late arrivals to class, will most likely have a negative effect on the student’s performance and consequently on the UCMAS success.
UCMAS Vs School

- UCMAS does **not** replace and is **not** conflicting with the school mathematics.
- With UCMAS children will be able to do school mathematics much **faster**.

- If your child is already good with mathematics, still they can benefit from UCMAS, as the benefits explained earlier, will be even more obvious to such students.
COMPETITIONS

- Once per year a Pancyprian UCMAS Competition takes place
- All UCMAS students have the right to participate
- The best UCMAS students from each category represent Cyprus at the World UCMAS Competition
To Be or Not To Be…

- As parents you want what’s best for your children
- You need to prepare them to overcome the challenges in today’s way of living, such that they have a successful life
- Give them the best gift ever
- Through UCMAS give them the opportunity to get involved with an intelligent activity that results in the creation of smart and charismatic children

Approved by Ministry of Education & Culture