



وزارة التربية والتعليم
Ministry of Education



هيئة جودة التعليم والتدريب
Education & Training Quality Authority



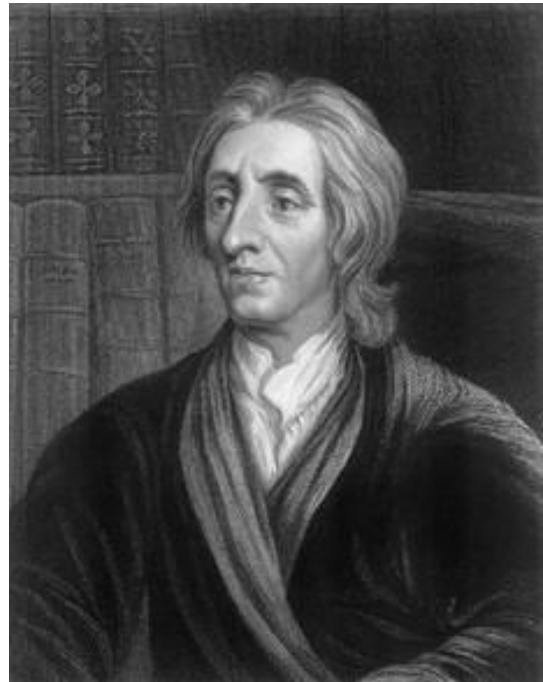
BTC
كلية المعلمين
BAHRAIN
TEACHERS COLLEGE

Literacy and Numeracy through Play

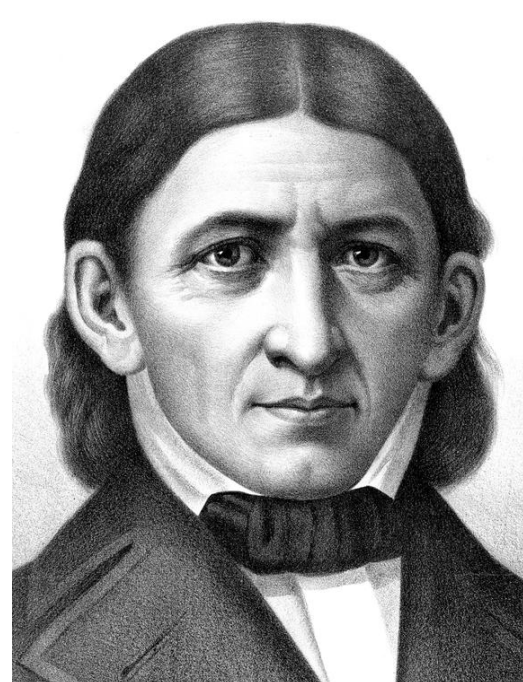
The Montessori way

Presenter name: Madeleine's Preschool

Old or New?!



John Locke
1632 - 1704



Friedrich Froebel
1782 - 1852



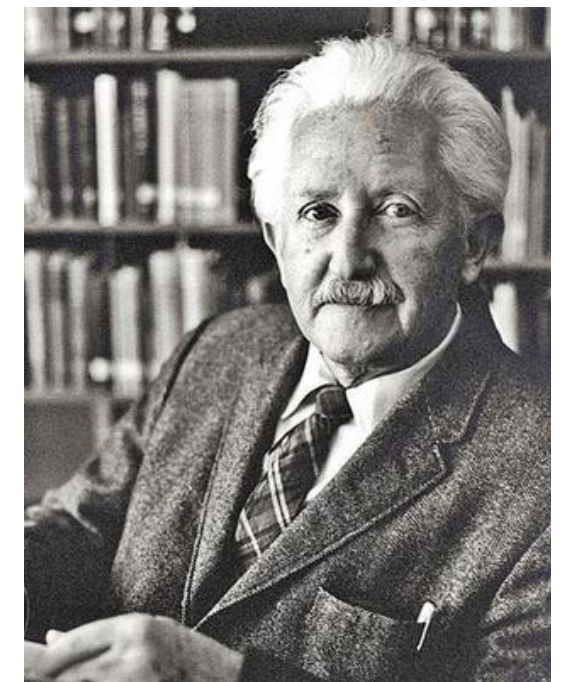
Maria Montessori
1870 - 1952



Lev Vygotsky
1896 - 1934



Jean Piaget
1896 - 1980



Erik Erickson
1902 - 1994

Learning Through Play! – The idea that changed education

Friedrich Froebel

Children learn best by doing things themselves

Creat wooden objects to encouraging creativity and fine motor skills

1837
The kindergarten
Emphasized structured play and imaginative fantasy



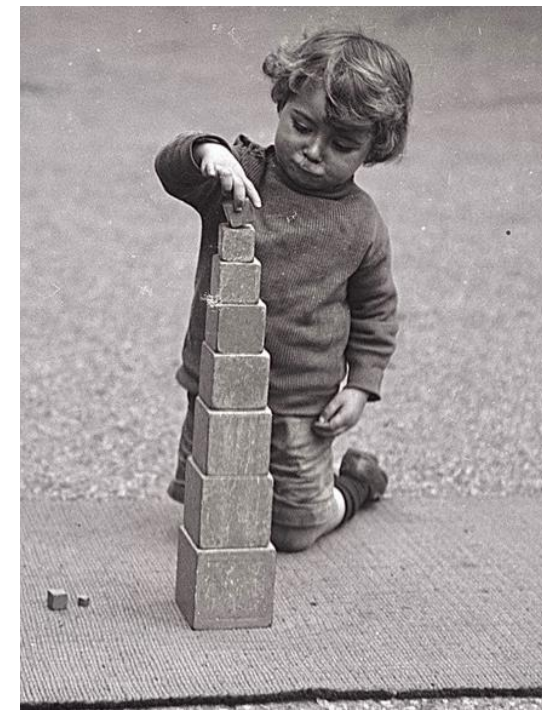
From Play to Purpose – what looks like play for adults is actually meaningful work for the child

Maria Montessori



Scientific observation
“Play is the child’s work”

emphasized Purposful work
with self- correcting
materials



1907
The Children’s house
A prepared environment fosters
independence, hands-on
learning and self-directed
materials



Work in the Montessori environment

Activities of everyday life



Sensorial Materials



Language



Math



How do children work?

Guided Work



Free Choice of work



Guided work: Lessons in a Montessori classroom



Observation



Individualized lesson Plan



The lesson: Presentation: 3-period lesson - Work cycle – Child's own experience.



Assessment: Observation and representing as needed.

Language

The child's key to the world

Natural human needs.

Not taught first; it is absorbed.

Begins at birth

It is the key to independence

Express needs and ideas

Develop social relationships

Access culture, knowledge and learning

Prepare for reading, writing and academic success

Oral language - English



**Nursery Rhymes
and songs**



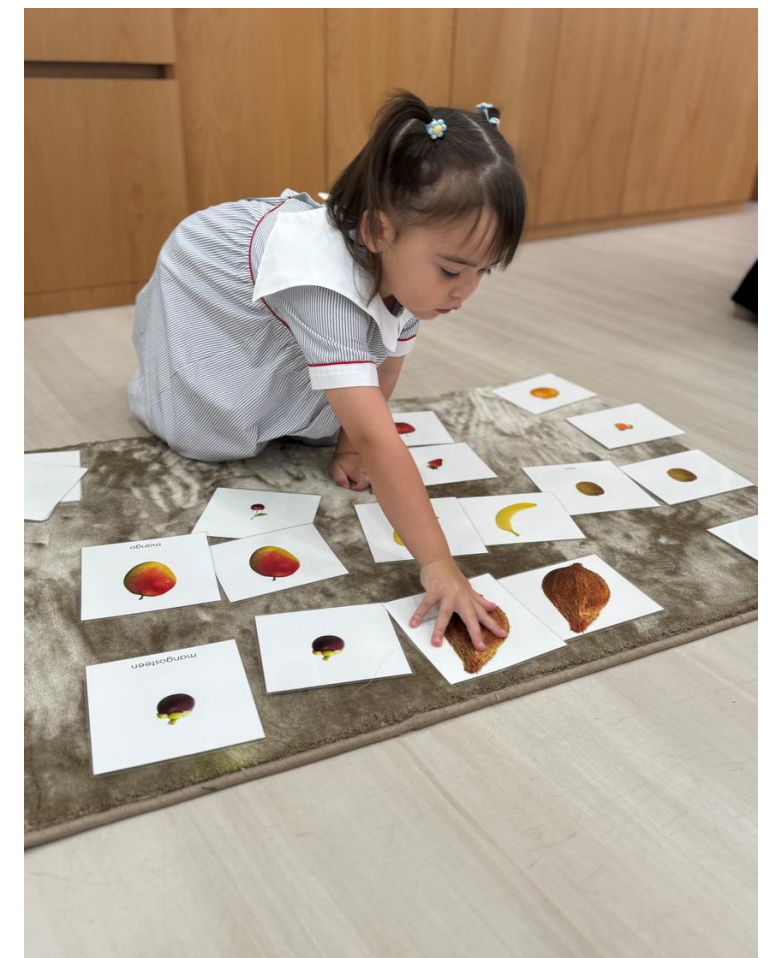
Storytelling



**Oral and written
conversations**



**Oral games
(I spy game)**



**Language Cards
(Nomenclature Cards)**

Writing - English



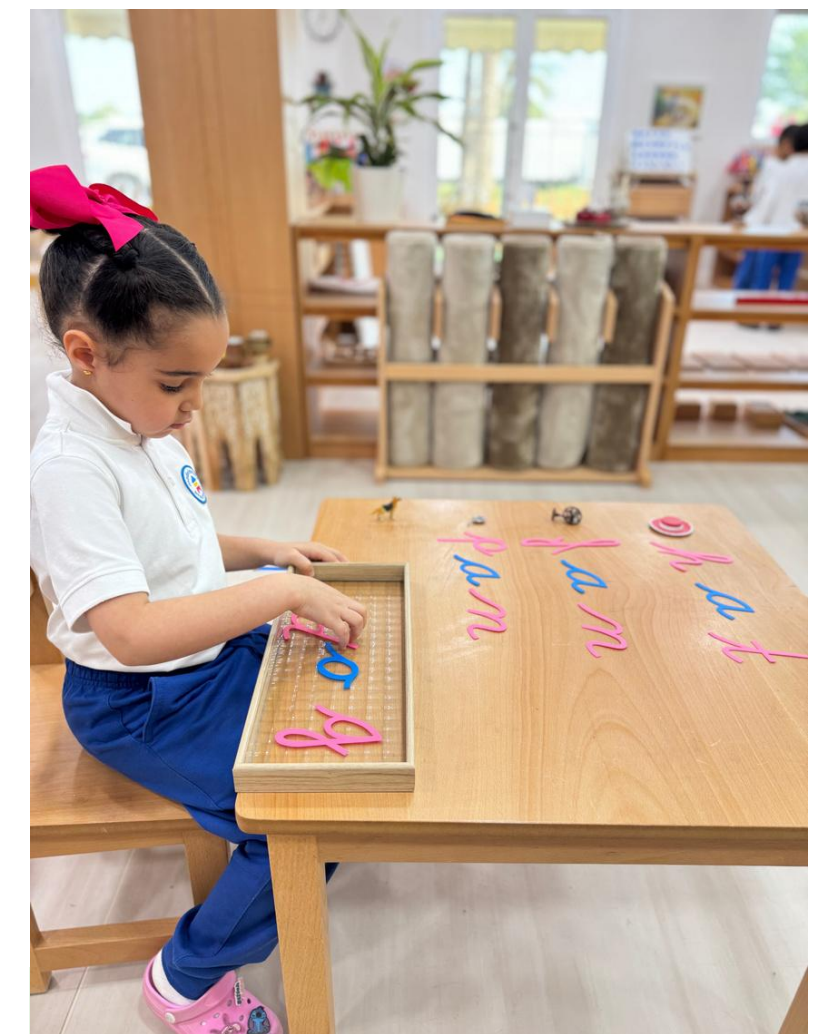
Metal Insets- Training of the hands and the wrists



Sandpaper Letters- Tracing the shape of all letters and learning their sounds



Writing individual letters



Movable Alphabet- Building words

Writing - English



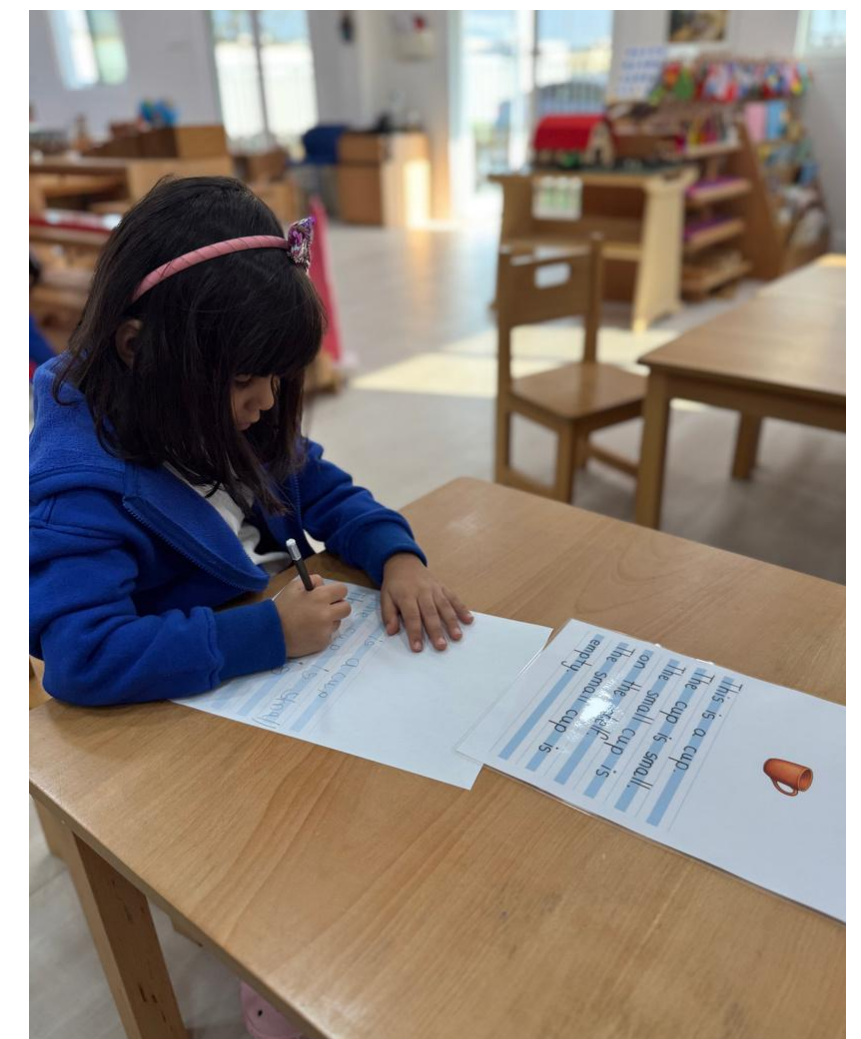
**Writing booklets -
Phonetic words**



**Learning the
Phonograms**



**Printed Movable
Alphabet- Building
sentences**



**Writing a whole
paragraph**

Reading - English



Phonetic words with objects



Phonetic cards



Sight words



Phonograms



Reading paragraphs

Oral language - Arabic



الاناشيد



قراءة القصص



لعبة الأصوات



ترتيب أحداث قصة

Writing - Arabic



الحروف المصنفة



ربط الحروف بمجسمات
تبدأ بنفس الحرف



المرحلة الأولى للكتابة :
كتابة الحروف في لوح
الرمل



المرحلة الثانية للكتابة :
كتابة الحروف على اللوحة

Writing -Arabic



المرحلة الثالثة للكتابة :
الكتابة على الورق



مواضع الحروف



الحروف المتحركة



الحركات
(الفتحة / الضمة / الكسرة)



المدود

Reading - Arabic



قراءة مخصصة
بالحرف
المدرّوس



قراءة الكلمات

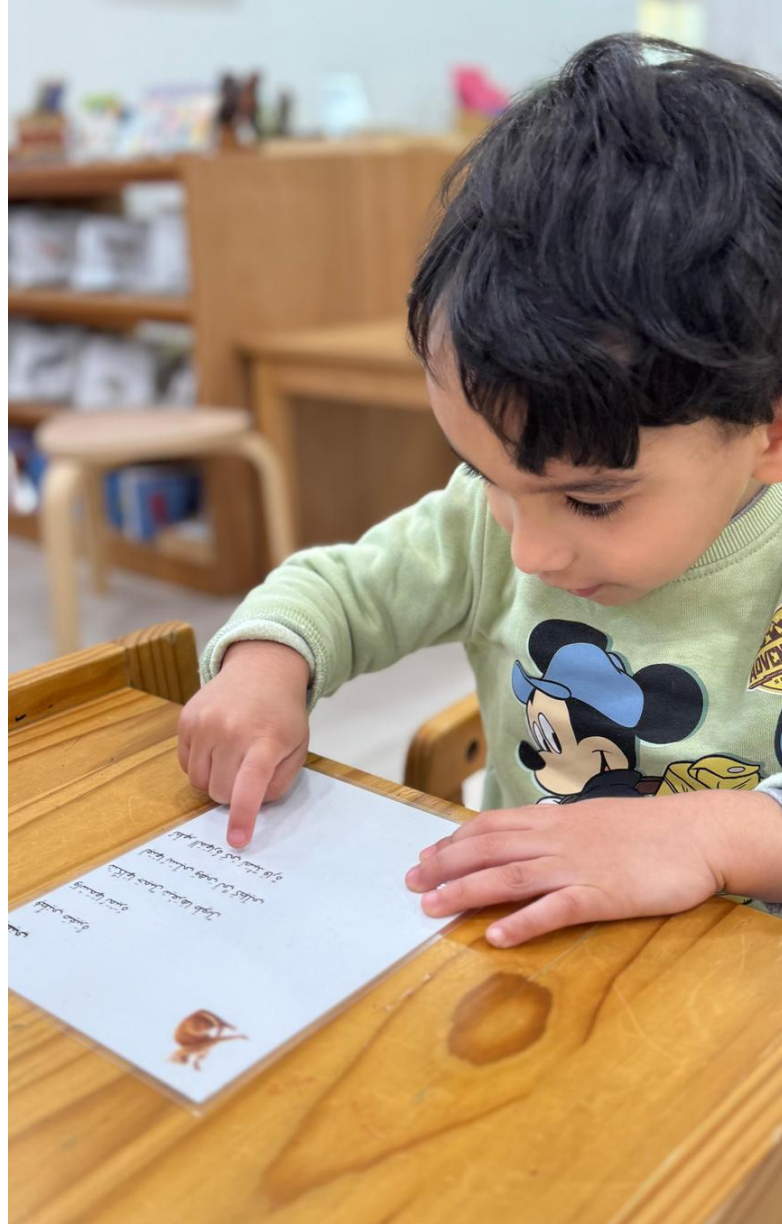


قراءة بطاقات
التصنيف

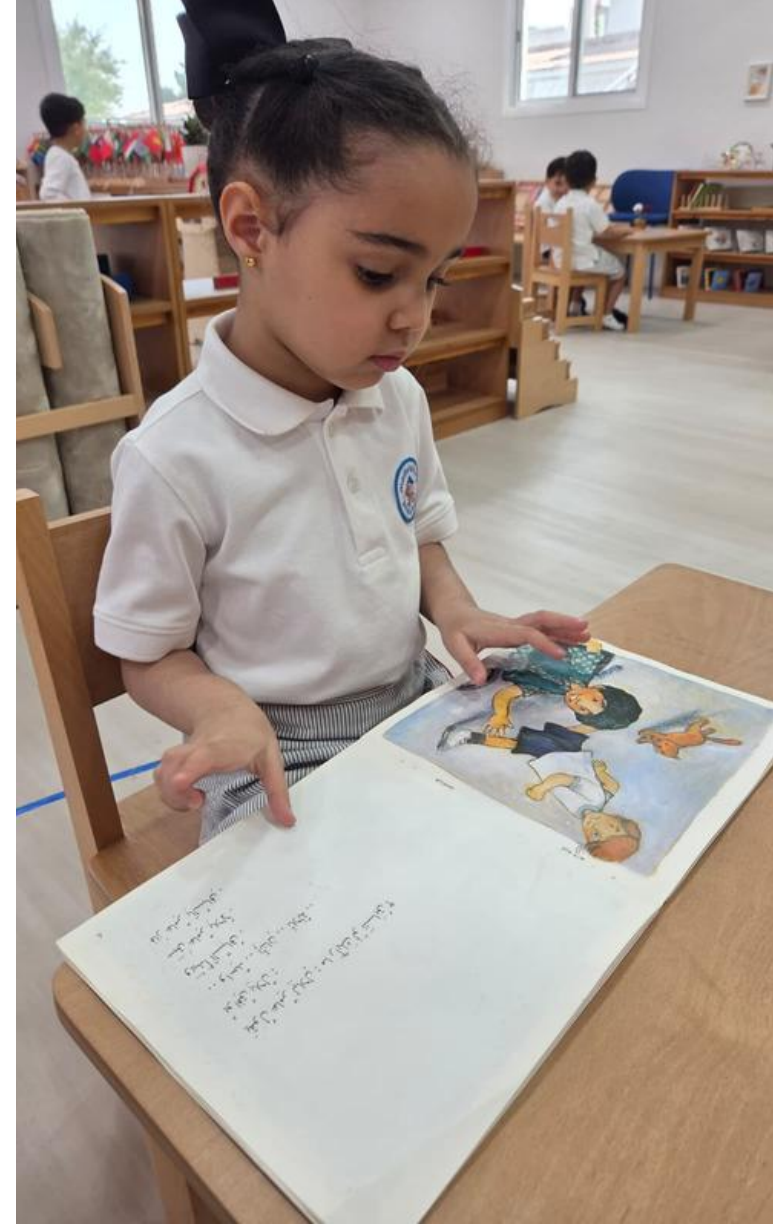


قراءة التعبير
الشفوي بعد كتابته

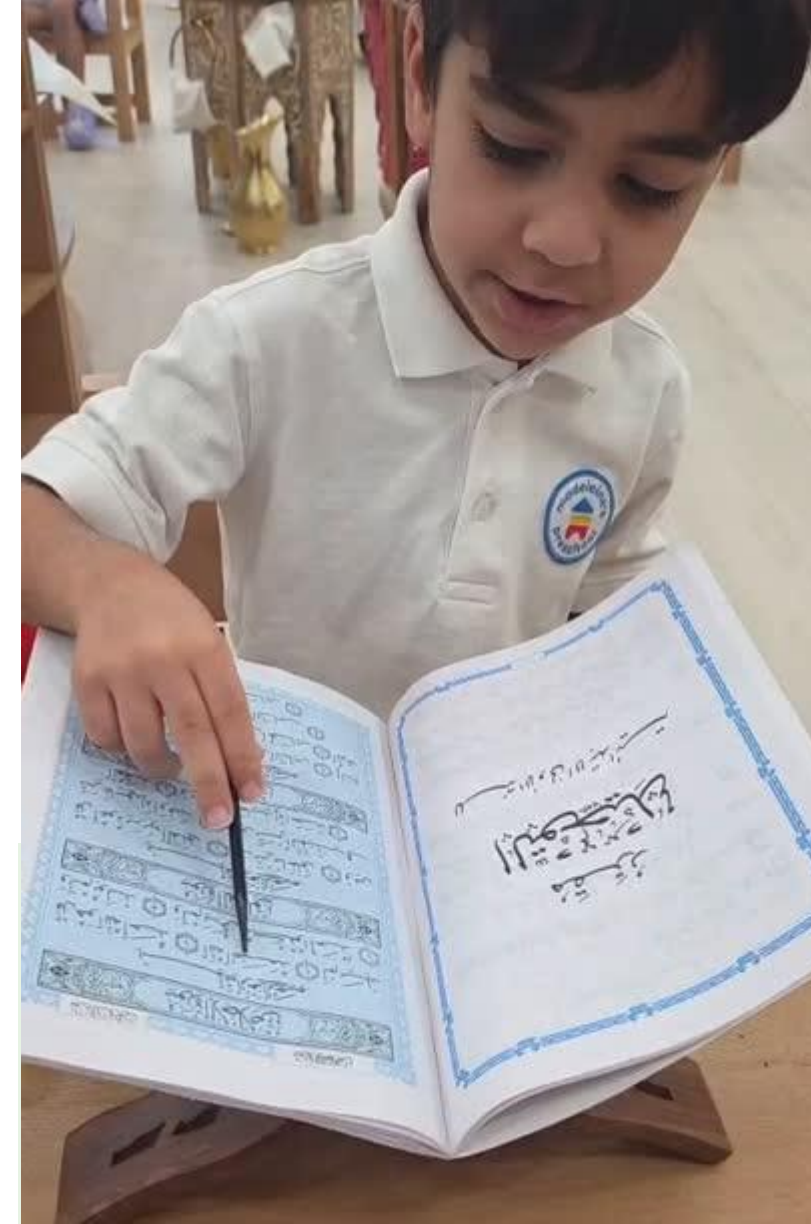
Reading - Arabic



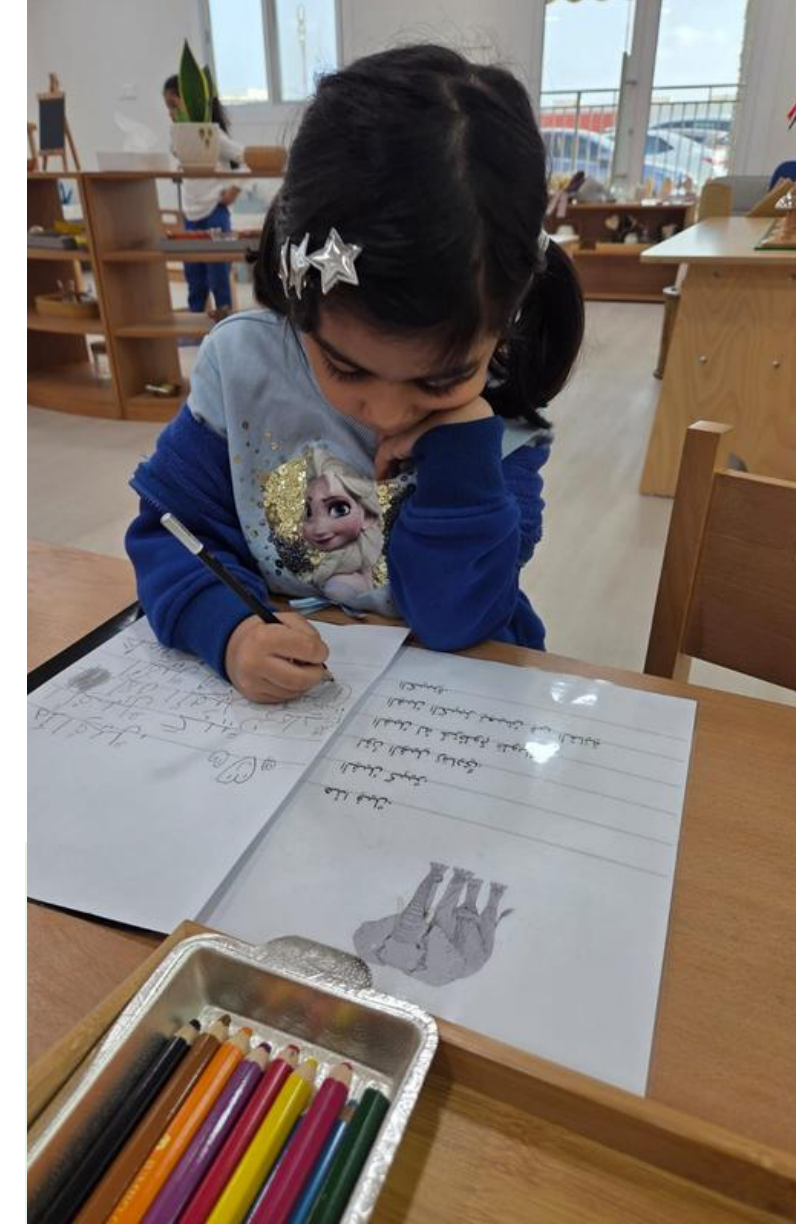
قراءة الأناشيد



قراءة قصة



قراءة سورة قصيرة



قراءة الفقرة و كتابتها

Mathematics

Mathematical mind

It is
experience,
not
memorizing

begins from birth,
through the child's
natural experience
with **order**,
quantity, size, and
patterns

How Mathematics is taught in Montessori

Concrete
Materials

Quantity before
symbol

Hands on repetition

gradual Abstraction

Group 1: Numbers Zero to ten



**Introduction of quantities
1 to 10**



**Introduction of
quantity symbols
1 to 10**



**Connect concrete
quantity with abstract
symbols**



**Introduce the
concept of Zero**



**Introduce the
concept of odd
and even**

Group 2: introduction to teens the decimal system



**Building teen numbers with beads
1- 19**



Building teen numbers with boards



Building ten numbers with boards



**Introduction of the Decimal numbers
10 - 100 - 1000**

Group 2: introduction to teens the decimal system



Numbers 1- 9000



**Connect the symbol to the quantity
with golden beads**



Introducing 100 with beads



Writing 1 - 100

Group 3: The operations



**Bank game introduction
of the first operations
(+ , - , x , ÷)**



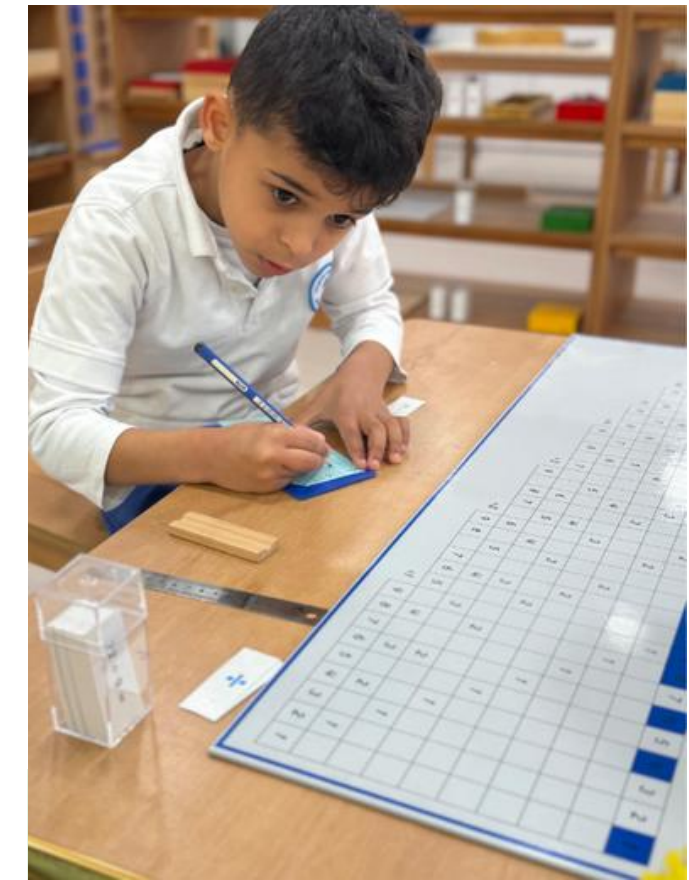
**Using the addition
board**



**Using the Subtraction
board**



**Using the
Multiplication board**



**Using the Division
board**

The Role of the Teacher (director)

- ➔ **Self preparation: Mentally-Physically-Emotionally**
- ➔ **Creating a Prepared Environment to create as many opportunities for learning as possible**
- ➔ **Observe-> Child's interests and capabilities**
- ➔ **Give guided lessons**
- ➔ **Encourage exploration**



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