



**IMC**  
THE INTERNATIONAL  
MONTESSORI CENTER

# First week

(01-04 July)





## Day 1

During the summer holiday, the first week of the summer term will focus on biology, while the second week will be dedicated to geography. There will be plenty of experiments and hands-on learning, including visits to renowned locations and explorations of the Earth using books sourced from abroad. Visit the link below to learn more about our summer school teachers.

**9:00-9:20**-Breakfast

**9:20-9:45**-Montessori Work Period

**-The Story of the Coming of Life**

-Materials: Timeline of Life

-Charts H3/H4/ 7/8

-Weights to hold the timeline

-Map Templates

**9:45-10:30**

-Silent Game of Story of Coming life (year 6-9)

-Exploring more about the Cambrian Pieces

Carboniferous Pieces

Cenozoic Pieces

Devonian Pieces

Mesozoic Pieces and etc

-Creating their own Story of Coming Life Chart (9-12)

**10:30-11:30**

-Boys- Football

-Girls-Yoga

**11:30- 12:00**

**A quick community task:**

Cool down Period inside.

Completing the Silent Game

Completing their own Story of Coming of Life

**12:00-13:00** -Lunch Time

Ideally outdoors as a picnic if weather allows. They will observe the plants as they eat, which can spark informal conversations.

**13:00-14:00-Silent Game** (This mindfulness exercise integrates imagination with relaxation, and gives them an inner experience with empathy for living things)

## **14:00-14:20- Needs of the Plant experiment**

### **Materials**

- 4 identical, rather small containers (e.g. ceramic cooking ramekins)
- Cotton balls
- Viable, fast growing seeds (e.g. radish, alfalfa, or cress)
- Tickets and a pencil
- Water

## **14:20-15:00 Plants grow towards the light**

### **Materials**

Container, such as baking pan, that will hold sprouted plants

-Wooden or cardboard box constructed to the size of the container above. The box has two “windows” on opposite sides that can be opened and closed. Note that the top edge of the container is at the same height as the bottom edge of the window cut into the side of the box.

-Prepare the container by putting a layer of drainage material (small rocks, bits of broken pots, or aquarium charcoal) on the bottom. Cover the drainage material with 1 – 1.5 inches of soil.

-Spread seeds on the surface and water regularly until the seedlings germinate.

## **15:00-15:30 Tea Time**

## **15:30-16:30- “Monkey in the middle” game**

## **16:30-17:00 “ Fun Facts” (Plants)**



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## Day 2

**9:00-9:20**-Breakfast

**9:20- 10:20** Montessori Work Period

- Story-**Main function of the leaf (15 minutes)**
- Parts of the leaf (15 minutes)**
- Project - “Part of the leaf” (Each child cut their own leaf in different shapes and writes the parts on it) (30 minutes)**

### **Materials**

- Chart B (used after telling of the first story)
- Chart C (used after exploration of the environment)

**10:20-11:20** **Leaves Give Off Moisture**  
**Viewing Stomata with a Microscope**  
**Leaves Give Off Oxygen**

1.Demonstration: Leaves Give Off Moisture

- Well-watered, small, hearty plant
- Plastic bag to fit over a portion of the plant
- Rubber band
- Sunny day

2.Demonstration: Viewing Stomata with a Microscope

- Microscope
- Slide
- Cover slip
- Eye dropper
- Water
- Plant, geraniums are good

### 3.Demonstration: **Leaves Give Off Oxygen**

- Large jar with a wide mouth
- Glass funnel, transparent, long stem (but not going above the rim of the jar)
- Test tube
- Towel
- Aquatic plant (Elodea, Anacheris, Myriophyllum Aquaticum, etc.) available from aquarium store

**11:20** Outdoor work to look different varieties of leaf and make a booklet.

**12:00-13:00** Lunch Time

**13:00- 14:00** Group 1 -Chess Time (6-9)  
Group 2-Art Lesson (9-12)

**14:00-15:00** Group 2- Chess Time (9-12)  
Group 2-Art Lesson (6-9)

**15:00-15:30** Tea Time

**15:30-16:30**- Playground Time

**16:30-17:00**-Story Time





## Day 3

**9:00-9:30**-Breakfast

**9:30-10:30** **The Root**

-Main function of the root (experiment)

-Main function of the root (stories)

-Parts of the root

**Materials:**

Main function

Longish pan, rectangular in shape, transparent

Drainage material

Soil

Fast growing, viable seeds (alfalfa, radish, mustard, cress)

Toothpick or other marker

For demonstration after plants have started to grow you will also need [Chart E](#)

**Materials:**

Parts of the root

Tray from prior demonstration showing an obstacle

Corn plant sample (from Two Main Types of Roots)

[Chart F](#)

Hand lens

Books with images of the parts of the root (optional)

**10:30-11:30** **Steam/Robotech** (age 9-12)/**Planting a flower and vegetable** (6-9)

**11:30-12:30** **Steam/ Robotech** (age 9-12)/**Creating the model of the Plant** (6-9)

**12:30-13:30**-Lunch Time



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**13:30-14:30-Football-Boys/ Yoga-Girls**

**14:30-15:30 Steam/Robotech (age 6-9)/ Planting a flower and vegetable (9-12)**

**15:30-16:30- Steam/Robotech (age 6-9)/ Creating the model of the Plant (9-12)**

**16:30-17:00-Tea Time**





## Day 4

**9:00-9:30**-Breakfast

**9:30- 10:00** -Visit to Botanical Garden

**10:00-10:30**- The Stem

1.Main function of the stem (Experiment) (15 minutes)

**Materials:** Main function of the stem

- Celery (fresh with leaves on top)
- Cutting board
- Knife
- Towel
- Food coloring
- Water
- Glass

2.Two main kinds

**Materials:** Two main kinds

A specific specimen is needed for each variety, woody and herbaceous.

**10:30-12:00**-Start exploring Botanical Garden

- Discuss the needs of plants.
- Explore the function of the leaf.
- Examine different types of roots (discover which types dislike light).
- Examine different types of stems.
- Take pictures of different plants and use them for a future project.

**12:00-13:00**- Lunch (picnic at Botanical Garden)

**13:00-13:30** Back to School

**13:30-14:30** - **Steam/Robotech** (age 9-12)/**Art** (age 6-9)

**14:30-15:00**-Tea Time

**15:00-16:00**- **Steam/Robotech** (age 6-9)/**Art** (age 9-12)

**16:30-17:00**-Playground Time



## Day 5

**9:00-9:30**-Breakfast

**9:30- 10:30**-Animal Story Material

**10:30-11:30**- **Steam/Robotech** (age 9-12)/ **Working on a project of Animal Story Material** (age 6-9)

**11:30-12:30**- **Steam/Robotech** (age 6-9)/ **Working on a project of Animal Story Material** (9-12)

**12:30-13:30** Lunch

**13:30-14:30**-**Girls-Chess/Boys Football**

**14:30-16:30**-**Boys-Chess/Girls-Yoga**

**16:30-17:00**-Tea Time





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# Second week

(07-11 July)





# IMC

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## Day 1

**9:00-9:20**-Breakfast

**9:20-10:30**-Montessori Work Period

**-Great-God Who has no hands-Story Time**

**Demonstration #1: Three States of Matter**

-Tray

-3 identical transparent glasses, 1 half full of water, 1 containing ice cubes, 1 empty

-Thermos to keep ice cubes frozen until needed

**Demonstration #2: Particles Come Together**

-Transparent bowl, 8 – 10 inches in diameter, half full of water

-Tray

-Container with little pieces of paper, white

**Demonstration #3: Particles of Liquid**

-Transparent container

-Small, spherical items representing the particles (BB's, iron shot, cake decoration, etc.)

**Demonstration #4: Matter Changes According to Temperature**

-Heat source able to accommodate all three dishes and Heat

-Protection

-3 identical heatproof dishes or containers

-Wax or paraffin

-Tiny pieces of solder

-Non-descript piece of iron

-Aluminum pie plate

-Glass stirring rod

**10:30-11:30-Boys-Football/ Girls-Yoga**

**11:30-12:00- Silent Game**

**12:00-13:00-Lunch Time**

**13:00-13:40- Montessori Work Period**

**Demonstration #5: Liquids Settle According to Weight**

- 3 identical test tubes in a test tube rack
- Water, filling  $\frac{1}{3}$  of the tube
- Molasses or honey
- Vegetable oil, less than  $\frac{1}{4}$  of the tube

**Demonstration #6: Volcano**

- $\frac{1}{4}$  c baking soda
- $\frac{3}{4}$  c vinegar
- Approximately 5 “pumps” of dish soap combined in  $\frac{1}{3}$  c water
- A few drops of red food coloring
- See separate handout for instructions for building the volcano

**Demonstration: #7 Elephant Toothpaste**

**13:40-14:40-Steam/Robotech (age 9-12)/ Pizza Cooking Time (6-9)**

**14:40-15:40- Steam/Robotech (age 6-9)/Pizza Cooking Time (9-12)**

**15:40-16:00-Tea Time**

**16:00-17:00-Monkey in the middle game**



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## Day 2

**8:00-9:00**-Arrival Time

**9:00-11:00**-**Visit to Quba** (including breakfast)

**11:00-11:40** Tea Time in Quba

**11:40- 12:00**-**Macara Lake Park**

**12:00-14:30**-Lunch time in Qechresh (Quba)

**15:00-16:00**-**Quba Planet, Rixos -Amusement Park**

**16:00-18:00**-Back to Baku



## Day 3

**9:00-9:20** Breakfast

### **9:20-9:40-The Rotation of the Earth and Its Consequence**

-Two Movements of the Earth

-Day and Night

**Materials:** The Rotation of the Earth & Its Consequences: Two Movements of the Earth

-sphere or soft object on a string

-Sandpaper globe

-Light or lamp

-Charts 7a, 8a

**Materials:** The Rotation of the Earth and Its Consequences: Day and Night

-Sandpaper globe and lamp

**Materials:** The Rotation of the Earth and Its Consequences: Sunrise, Morning, Midday, Afternoon, Sunset, Night

-Sandpaper globe and lamp

### **9:40-10:00- Project of The Rotation of the Earth and Its Consequence**

**10:30-11:30-Steam/Robotech(age 9-12)/ Protection of the Atmosphere and the Rains (6-9)**

**11:30-12:30 Steam/Robotech ( age 6-9) / Protection of the Atmosphere and the Rains (9-12)**

**12:30-13:30** Lunch Time

**13:30-14:30- Football -Boys/Yoga Girls**

**14:40-15:30- Visit to Planeterium (Let's protect our Earth)**

**16:00-16:30**-Tea Time

**16:30-17:00** Monkey in the middle game



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## Day 4

**9:00-11:30** - Trip to Shamakhi (including breakfast)

**11:30-12:30** Shamakhi Astrophysical Observatory

**12:30- 14:00** Lunch Time

**14:00-15:30** - Safari Park Tour

**15:30 – 16:30**- Tea Time

**16:30- 18:30**- Back to Baku



## Day 5

**9:00-9:30-** Breakfast

**9:30-10:30- The River**

The River Carves, Carries, Deposits (River Model)

Layers of Sediment (Deposition)

Parts of a River

Follow-Up Work and Extensions

Rivers Flow from Highlands and Lowlands

**Materials: The River Carves, Carries, Deposits (River Model)**

-River model constructed ahead of time

-Transparent basin to collect the water that runs off

-Watering can with rain spout

**Materials: Layers of Sediment (Deposition)**

-River model

-Clear basin or pan

-Watering can with rain spout

-Different colors of sand or chalk powder (3 – 4 colors)

**Materials: Parts of a River**

River model

**10:30-11:30 – Steam/Robotech (age 9-12)/Working on a project of Rivers of the Child's Own Country/Continent (6-12)**

**11:30-12:30- Steam/Robotech (age 6-9)/Working on a project of Rivers of the Child's Own Country/Continent (9-12)**

**12:30-13:30-** Lunch

**13:30-14:30- Girls-Chess/Boys-Football**

**14:30-16:30-Boys-Chess/Girls-Yoga**

**16:30-17:00-**Tea Time