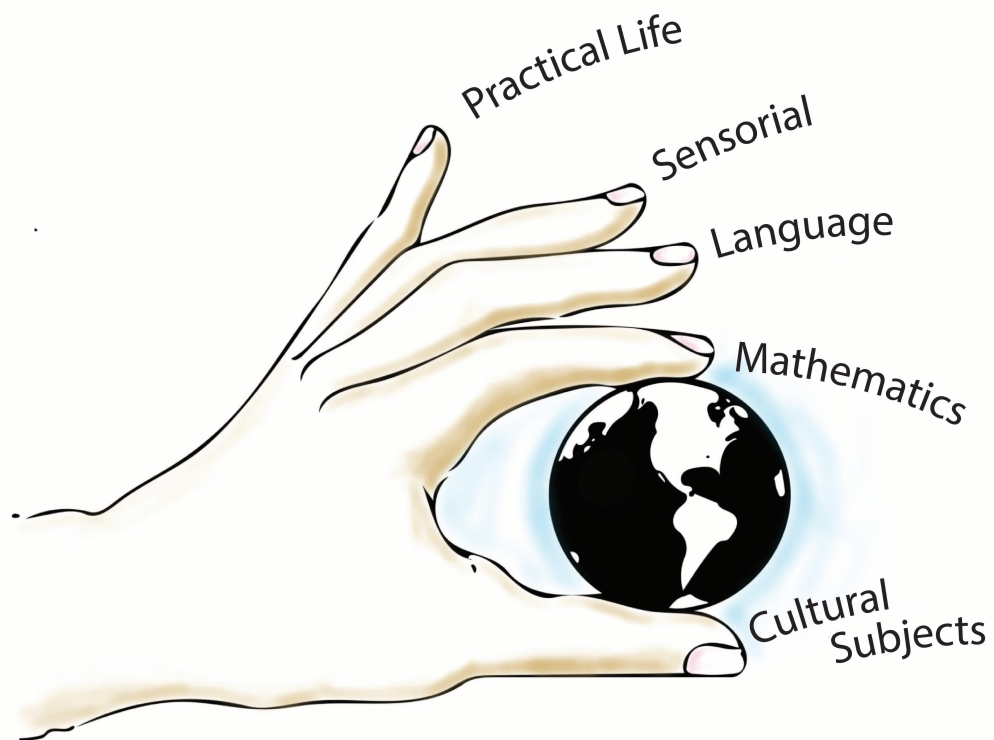


Montessori Educators International, Inc.



Geography

Elementary

Teacher Manual

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Teacher Manual

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Time Zones

Materials

Control maps of the eastern and western hemispheres with world time zones drawn and labeled; mute map and container of separate labels

Control map of hemisphere in which child lives, showing time zones and their names such as Eastern Standard Time, Central Standard Time, etc.; mute map and container of separate labels for zones showing time, container of separate labels for names of zones

Information booklet about time zones

Command cards to direct activities involving finding positions and times

Procedure 1

for Time Zones:

1. Once a child who can tell time has learned latitude and longitude lines, invite the use of the materials for time zones of the child's hemisphere. By now, the child should know the procedure for the use of control cards, mute cards and labels without a lesson.
2. Say that the time zone materials for the other hemisphere may be chosen also.

Procedure 2

1. Invite the child to read the information booklet about time zones.

2. Invite the child to use command cards for activities involving finding positions and times world-wide.

Control

of Error:

Control maps

Vocabulary

solar time	International Date Line	Greenwich Mean Time	Pacific Standard
Time	Mountain Standard Time	Central Standard Time	Eastern Standard
Time	calendar	day	names of time zones for other continents

Glaciers

Materials

Container of control cards, mute cards and labels for types of glaciers

Booklet on origin and movement of glaciers and effects of glaciers
Maps showing glacial periods

Procedure

Invite the child to read the information booklet about glaciers and their effects.

Invite the child to use the maps about glacial periods.

Vocabulary

glaciated mountain	valley glacier	ice sheet
piedmont glacier		

Economic Geography

Purposes

- To give a means for understanding the economic system
- To develop awareness of the interrelationships of the economic system
- To stress the importance of conservation
- To arouse interest in the study of economics
- To understand the dependence among people and nations

Preliminary Exercises

Work with basic geography materials: globes, latitude and longitude, land and water

forms, climate zones, deserts, glaciers, earth's atmosphere, interior of Earth, volcanoes, seismic belts, parts of a mountain

Practice using the map materials

Materials

Information booklets on Earth's spheres, natural resources, agriculture, transportation and trade

Copies of continent maps for student's use (Level 1 maps)

Product stamps and ink pad

Command cards

Reference materials for research projects

Maps with transparent overlays for natural regions

Procedure

1. Invite a child to read any of the information booklets for Economic Geography and to choose command cards appropriate to the information booklet.
2. Invite the child to use transparent overlays with hemisphere maps.

Directions for Preparation of Transparencies

1. Make photocopies of hemisphere map drawings for range of temperature, natural vegetation regions, rainfall and climate onto special transparent film which is available for photocopying.
2. Using permanent markers, color in the regions according to the written color key for each category.
3. Store transparencies with paper between each in a light-proof container labeled as to contents.

Color Key

Natural vegetation regions:

evergreen forests	green
deciduous forests	brown
grass	yellow
little or no vegetation	orange

Temperature range: (Fahrenheit scale)

60 degrees	orange
50-60 degrees	red
40-50degrees	purple
30-40 degrees	blue
20-30 degrees	green
10-20 degrees	light green
5-10 degrees	yellow
0- 5 degrees	off white

Climate regions:

tropical wet	red
tropical wet and dry	pink
cool and wet highlands	orange
deserts and steppes	yellow
subtropical dry summer	yellow dots
subtropical humid climate	light green
oceanic humid continental	green
humid subarctic	green dots
polar	light blue
icecap	blue dots
	blue

Annual rainfall:

more than 60 inches	blue
40 to 60 inches	purple
20 to 40 inches	red
10 to 20 inches less	orange
than 10 inches	yellow

Directions for Preparation of Cosmology Time Line

Linear scale: 1 inch equals 5 years. Time scale: 1500 AD to 2000AD

1. Cut white or neutral vinyl 8 1/2 inches wide and 100 inches long.
2. Obtain a permanent black marker to use for drawing lines. On both long edges, make 1/2 inch lines at right angles to the edge and space these 1/2 inch lines 1 inch apart. When the 5 inch mark is to be made, continue it all the way across the vinyl.
Continue
3. On the lines which extend across the entire width of the vinyl strip, label the years with the permanent marker. The first line is 1525, the next is 1550, etc. since each line across the strip represents 5 years.
4. Copy directly onto cover stock the same color as the vinyl time line the labels containing the names of the prominent discoverers and theorists in the field of cosmology which appear in the white pages. Cut these name cards to 1 by 4 1/4 inches after laminating or laminate after cutting apart. Place in a small box or packet made from the same vinyl as the time line.
5. Place the rolled time line, the container of labels and the information booklet into a suitable container labeled Cosmology Time Line.

Directions for Preparing Geography Commands

1. Copy the commands and the materials listed in the white pages.
2. Cut into parts and mount the command on one side of a 3 by 5 inch card with the materials for that command mounted on the reverse.
3. Place the cards in a container on the geography shelf with the necessary materials nearby when possible.
4. Use purchased material for the isolated outline country work which corresponds to the puzzle maps and controls in the classroom.

Directions for Major Constellation Materials

1. Use purchased materials which have a labeled star pattern on each card and a transparent overlay with the design of the named constellations.
2. Prepare separate labels for placing on transparencies, using the labeled card as a control.

Directions for Preparation of Time Lines

1. Follow the directions for preparation of time lines as given in the MEI Early Childhood course.

Direction for Preparation of Information Booklets

1. Follow the directions for preparation of booklets as given in the MEI Early Childhood course.

