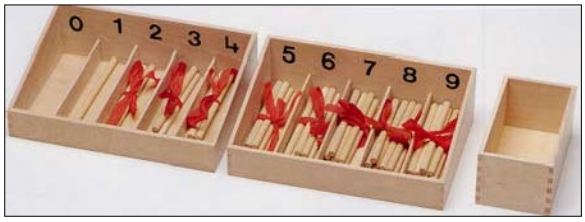
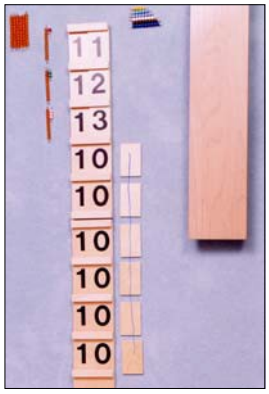
Albanesi Curriculum Program (A.C.P.)

Math Curriculum (PRE-M)





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INTRODUCTION

Montessori teachers use the Albanesi Curriculum Programs (A.C.P.) for tracking and assessing their students' academic progress. I am trying out this resource for the first time and have modified contents in the original document for ease of use and flexibility. The Math Curriculum Lab consists of 101 levels of Montessori exercises placed in sequential order from simple to increasingly more complex.

USE OF WORK PLANS

1. The benefit of using a comprehensive work plan lies in the convenience of being able to observe at a glance the entire range of a student's school work. When the student's work is completed, it may be checked off the work plan. The entire program is divided into 9 work plans.

2. Use the work plan to select an activity that requires a presentation. Give the new lesson and show the child how to use the curriculum cards and how they correspond to the Montessori materials. If the child has already received a presentation, he/she may simply work independently on the exercises.

3. Because in the Montessori environment there are days when the child uses the entire work period with manipulative materials and there is little or no work on paper, a notebook is assigned for each child's school work and kept in the classroom until the end of the school year. These notebooks are ready references for spontaneous parent conferences; they can be shown with pride at open houses and can be taken home at the end of the school year and saved as beautiful records of the students' work for years to come.

THE EFFECTIVE IMPLEMENTATION OF THE ALBANESI CURRICULUM PROGRAM (A.C.P.)

1. **GIVE A PRE-TEST TO STUDENTS (District recommended tests)**
2. **FROM THE PRE-TEST CREATE A WORKPLAN**
3. **LET STUDENT CHOOSE AN EXERCISE FROM WORK PLAN**
4. **FROM THE CARDS GIVE PRESENTATIONS AS NEEDED**
5. **ALLOW STUDENTS TO WORK AT THEIR OWN PACE**
6. **WHEN A WORK PLAN IS COMPLETED, GIVE A POST-TEST (not yet)**

INDEX

OF

MATH CARDS
(Task Cards)

PRE-M

BEGIN WORK PLAN #1 ●

NUMERATION

1a sandpaper numerals – large math chalkboard
1b sandpaper numerals – large math chalkboard
1c sandpaper numerals – large math chalkboard

NUMBER RODS

2a random rods – one at a time and match to number cards - chalkboard
2b random rods – stair formation and match to number cards - chalkboard
2c stair formation – bring #10 to other rug search for 10 as 9+1; 8+2; etc.
2d stair formation – bring #9 to other rug search for 9 as 8+1; 7+2; etc.
2e stair formation – bring #8 to other rug search for 8 as 7+1; 6+2; etc.

QUANTITIES AND SYMBOLS

3a spindle boxes – copy 0 to 9 on chalkboard then on math paper
3b place specific quantities - copy 0 to 9 on chalkboard; then on math paper
3c place specific quantities - copy 0 to 9 on chalkboard; then on math paper
3d number tablets
3e apple tree or similar quantity counting game
3f tracing sequence

NUMBER RODS

4a stair formation – see card for addition problems to solve
4b stair formation – see card for addition problems to solve
4c stair formation – see card for subtraction problems to solve

CARDS AND COUNTERS

5a lay-out game – practice numerals on chalkboard or math paper

NUMERATION

6a see card for inserting missing numerals – use math paper
6b see card for inserting missing numerals – use math paper
6c see card for inserting missing numerals – use math paper

QUANTITIES AND SYMBOLS

7a colored bead-bars – graph paper – concept of MORE
7b colored bead-bars – graph paper – concept of MORE
7c colored bead-bars – graph paper – concept of FEWER
7d colored bead-bars – graph paper – concept of SAME
7e match numerals to picture cards
7f tray of colored bead-bars 1-10 and printed paper/colored pencils

GOLDEN BEADS

8a addition problems – color-coded chalkboard and color-coded paper

NUMBER RODS

9a stair formation – see card for addition problems to solve
9b stair formation – see card for subtraction problems to solve
9c stair formation – see card for mixed problems to solve

ADDITION OF SETS

10a colored bead-bars – see card
10b colored bead-bars – see card
10c colored bead-bars – see card
10d set of picture cards
10e set of picture cards

GOLDEN BEADS – ADDITION

11a see card for problems – color-coded chalkboard and color-coded paper

SEGUIN BOARDS – 11 to 19

12a match cards with bead-bars (10+1; 10+2; 10+3; etc.)

NUMERATION

13a insert missing numerals – use math paper

GOLDEN BEADS – STATIC ADDITION

14a write on color-coded chalkboard and color-coded math paper

LINEAR COUNTING – THE HUNDRED CHAIN

15a color-coded arrows for linear counting
15b blank arrows to identify intermediate numbers

SEGUIN BOARDS – 11 to 19
16a match cards with bead-bars – write on math paper

NUMERATION
17a insert missing numerals – use math paper

GOLDEN BEADS – STATIC ADDITION
18a write problems on color-coded chalkboard and color-coded paper

LINEAR COUNTING – HUNDRED CHAIN
19a color-coded arrows for linear counting
19b blank arrows to identify intermediate numbers

NUMERATION
20a insert missing numerals – write on math chalkboard or graph paper
20b tray of colored bead-bars 1-10 and printed paper/colored pencils
20c number tablets to be inserted
20d apple tree or similar quantity counting game
20e tracing sequence

END 0F WORK PLAN #1 ●

BEGIN WORK PLAN #2 ●

SEGUIN BOARDS 11 TO 19
21a match cards with bead-bars and math paper

HUNDRED BOARD
22a one row at a time (horizontal: 12345678910)

GOLDEN BEADS – STATIC ADDITION
23a color-coded chalkboard and math paper

ADDITION OF SETS
24a use colored bead-bars
24b use colored bead-bars
24c use colored bead-bars
24d use picture cards labeled 10.D
24e use picture cards labeled 10.E

NUMERATION
25a inserting missing numerals – use math chalkboard or paper

SEGUIN BOARDS
26a match cards with bead-bars

HUNDRED BOARD
27a one row at a time (horizontal) to 20

LINEAR COUNTING – HUNDRED CHAIN
28a color-coded arrows
28b blank arrows

ADDITION STRIP BOARD
29a formation of 10 (1+9=; 2+8=; 3+7=; etc.)
29b formation of 9
29c formation of 8
29d formation of 12

GOLDEN BEADS – STATIC ADDITION
30a problems with color-coded chalkboard and color-coded math paper

END OF WORK PLAN#2 ●

BEGIN WORK PLAN #3 ●

SEGUIN BOARDS 11 TO 19
31a match cards with bead-bars

HUNDRED BOARD
32a one row at a time (horizontal) to 30

ADDITION OF SETS
33a use color-coded bead-bars
33b use color-coded bead-bars
33c use picture cards labeled 10.D
33d use picture cards labeled 10.E

NUMERATION
34a inserting missing numerals

ADDITION STRIP BOARD
35a combination slips at random

GOLDEN BEADS – DYNAMIC ADDITION
36a color-coded chalkboard and math paper

SEGUIN BOARDS – 11 TO 99
37a match numerals of the 20's – copy on graph paper

HUNDRED BOARD
38a one row at a time (horizontal) to 40

LINEAR COUNTING – HUNDRED CHAIN
39a color-coded arrows
39b blank arrows

GOLDEN BEADS – DYNAMIC ADDITION
40a problems with color-coded chalkboard and color-coded math paper

END OF WORK PLAN #3 ●

BEGIN WORK PLAN #4 ●

ADDITION OF SETS
41a using colored bead-bars

SEGUIN BOARDS 11 TO 99
42a formation of 30s (30+1=; 30+2=; 30+3=; etc.)

LINEAR COUNTING – THOUSAND CHAIN
43a color-coded arrows
43b blank arrows

GOLDEN BEADS – DYNAMIC ADDITION
44a problems with color-coded chalkboard and color-coded math paper

ADDITION OF SETS
45a color-coded bead-bars

LINEAR COUNTING – THOUSAND CHAIN
46a color-coded arrows
46b blank arrows

SEGUIN BOARDS 11 TO 99
47a mixed numerals

ADDITION STRIP BOARD
48a random combination slips

NUMERATION
49a sequence with missing numerals

GOLDEN BEADS – DYNAMIC ADDITION
50a problems with color-coded chalkboard and color-coded math paper

END OF WORK PLAN #4 ●

BEGIN WORK PLAN # 5

ADDITION OF SETS
51a colored bead-bars – see card

SEGUIN BOARDS 11 TO 99
52a mixed numerals

NUMERATION
53a sequence with missing numerals

LINEAR COUNTING – THOUSAND CHAIN
54a color-coded arrows
54b blank arrows

SKIP COUNTING
55a short chains of 2 – 3 – 4
55b short chain of 5
55c short chains of 5 – 6 – 7 – 8 – 9

GOLDEN BEADS – DYNAMIC ADDITION
56a problems with color-coded chalkboard and color-coded math paper

MEMORIZATION OF ADDITION FACTS
57a finger board chart #3 – combinations of 3 +
57b finger board chart #3 – combinations at random
57c derived chart #4 - combinations at random

NUMERATION
58a hundred board – copy all the numbers on graph paper
58b sequence with missing numerals – use math chalkboard and math paper
58c sequence with missing numerals – use math chalkboard and math paper

GOLDEN BEADS – STATIC MULTIPLICATION
59a problems with color-coded chalkboard and color-coded math paper

SKIP COUNTING

60a short chains of 5 – 6 – 7 – 8 – 9 – 10
60b long chains of 2 – 3 – 4 – 5
60c long chains of 6 – 7 – 8 – 9 - 10

END OF WORK PLAN # 5 ●

BEGIN WORK PLAN #6 ●

MEMORIZATION OF ADDITION FACTS
61a finger board chart #3 – combinations at random
61b derived chart #4 - combinations at random
61c the Dutch board #5 - combinations at random

GOLDEN BEADS – DYNAMIC ADDITION
62a problems with color-coded chalkboard and color-coded math paper

LINEAR COUNTING
63a color-coded arrows
63b blank arrows

MEMORIZATION OF ADDITION FACTS
64a derived chart #4 - combinations at random
64b the Dutch board #5 - combinations at random
64c blank chart #6 – from smallest to largest

SNAKE GAME
65a problems on card

GOLDEN BEADS – STATIC MULTIPLICATION
66a problems with color-coded chalkboard and color-coded math paper

NUMERATION
67a hundred board and graph paper
67b sequence with missing numerals – graph paper
67c sequence with missing numerals – graph paper

MEMORIZATION OF ADDITION FACTS
68a the Dutch board #5 - combinations at random
68b blank chart #6 – from smallest to largest
68c blank chart #6 – combinations at random

GOLDEN BEADS – STATIC SUBTRACTION
69a problems with color-coded chalkboard and color-coded math paper

SNAKE GAME
70a problems on card

END OF WORK PLAN #6 ●

BEGIN WORK PLAN #7 ●

SUBTRACTION STRIP BOARD
71a table of 9 – begin with 18-9=; 17-8=; 16-7=; etc.
71b table of 8
71c table of 7

GOLDEN BEADS – ADDITION AND MULTIPLICATION
72a problems with color-coded chalkboard and color-coded math paper

MEMORIZATION OF ADDITION FACTS
73a finger board #3 – random combinations
73b blank chart #6 – from smallest to largest
73c blank chart #6 – combinations at random

SUBTRACTION STRIP BOARD
74a table of 6
74b table of 5
74c table of 4
74d table of 3
74e table of 2
74f table of 1
74g combinations at random

GOLDEN BEADS – STATIC SUBTRACTION
75a problems with color-coded chalkboard and color-coded math paper

MEMORIZATION OF SUBTRACTION FACTS
76a finger board #2 – random combinations
76b blank board – tiles from 1 to 9
76c blank board – random combinations

SKIP COUNTING
77a short chains of 5 – 6 – 7 – 8 – 9
77b long chains of 2 – 3 – 4 – 5
77c long chains of 6 – 7 – 8 – 9 – 10

GOLDEN BEADS – ADDITION AND MULTIPLICATION
78a problems with color-coded chalkboard and color-coded math paper

MEMORIZATION OF SUBTRACTION FACTS
79a finger board #2 – random combinations
79b blank board – tiles from 1 to 9
79c blank board – random combinations

SNAKE GAME
80a problems on card

END OF WORK PLAN #7 ●

BEGIN WORK PLAN #8 ●

GOLDEN BEADS – DYNAMIC SUBTRACTION
81a problems with color-coded chalkboard and color-coded math paper

MULTIPLICATION BEAD-BOARD
82a tables of 1 – 2 – 3
82b tables of 4 – 5 – 6
82c tables of 7 – 8 – 9
82d subtraction problems

SKIP COUNTING
83a short chains of 5 – 6 – 7 – 8 – 9 – 10
83b long chains of 2 – 3 – 4 – 5
83c long chains of 6 – 7 – 8 – 9 – 10

GOLDEN BEADS – DYNAMIC MULTIPLICATION
84a problems with color-coded chalkboard and color-coded math paper

MEMORIZATION OF SUBTRACTION FACTS
85a finger board #2 – random combinations
85b blank board #3 – tiles from 1 to 9
85c blank board #3 – random combinations

MULTIPLICATION BEAD-BOARD
86a tables of 1 – 2 – 3
86b tables of 4 – 5 – 6
86c tables of 7 – 8 – 9

SKIP COUNTING
87a short chains of 5 – 6 – 7 – 8 – 9 – 10
87b long chains of 2 – 3 – 4 – 5
87c long chains of 6 – 7 – 8 – 9 – 10

GOLDEN BEADS – MULTIPLICATION, ADDITION, SUBTRACTION
88a problems with color-coded chalkboard and color-coded math paper

MEMORIZATION OF MULTIPLICATION FACTS

89a finger board #3 – random combinations
89b derived chart #4 – random combinations
89c blank chart #5 – from smallest to largest

GOLDEN BEADS – STATIC DIVISION

90a problems with color-coded math paper

END OF WORK PLAN #8 ●

BEGIN WORK PLAN #9 ●

MEMORIZATION OF SUBTRACTION FACTS
91a finger board #2 – random combinations
91b blank board #3 – tiles from 1 to 9
91c blank board – random combinations

SNAKE GAME
92a problems on card

SKIP COUNTING
93a short chains of 5 – 6 – 7 – 8 – 9 – 10
93b long chains of 2 – 3 – 4 – 5
93c long chains of 6 – 7 – 8 – 9 – 10

GOLDEN BEADS – ALL FOUR OPERATIONS
94a problems with color-coded math paper
94b problems with color-coded math paper
94c problems with color-coded math paper

MEMORIZATION OF MULTIPLICATION FACTS
95a finger board #3 – random combinations
95b derived chart #4 – random combinations
95c blank chart #5 – from smallest to largest 95a addition

UNIT DIVISION BOARD
96a problems on card

MEMORIZATION OF DIVISION FACTS
97a finger board #1 – random combinations
97b blank chart #2 – random combinations

GOLDEN BEADS – DIVISION
98a problems with math paper

UNIT DIVISION BOARD
99a problems on card

GOLDEN BEADS – ALL FOUR OPERATIONS

100a problems with color-coded math paper
100b problems with color-coded math paper
100c problems with color-coded math paper

OPERATIONS IN THE ABSTRACT

101a problems on card

END OF WORK PLAN #9 ●