

Numeration Sets Numerals and Counters

Materials:

A box divided into two sections containing:

- (1) Set of Numeral Cards 1 - 10 in one section
- (55) Plastic round counters in one section

- (1) Set of cut-out numerals in a box

Note:

Set aside the box of cutout numerals until it is time to introduce them.

Add a rug if you work this activity on the floor.

General Presentation:

1. Invite a child or group of children.
2. Go over to where the Numerals and Counters are kept.
3. The teacher should name the material for the child, "Numerals and Counters".
4. The teacher should demonstrate how to carry the box with two hands (thumbs on top and fingers underneath the box).
5. Invite the child to carry the box over to the table.
6. Place the box at the top left hand corner of the table.
7. Take out each Numeral Card, one at a time, and place them a horizontal line (left to right) and in order being sure to leave room for the counters to be placed next.
8. Point to the numeral "one" and take one counter out of the box and as you put it underneath the numeral (left side of bottom edge of numeral) say "one".
9. Point to the numeral "two" and take one counter out of the box and as you put it underneath the numeral (left side of bottom edge of numeral) say "one". Take out another counter and place it to the right of the first counter and say, "two".
10. Continue until all the numerals and counters have been placed correctly.
11. Admire your work.
12. Return the counters to the box.

13. Return the Numeral Cards after you have stacked them in order beginning with one.
14. Return the Numerals and Counters to the shelf where it belongs.
15. Invite the child.

Presentation 2 - Cut-out Numerals:

Follow the General Presentation but replace the Numeral Cards with the Cutout Numerals. If a child is having trouble, make-up a control card.

Presentation 3 - Association of Numeral Cards and Cut-out Numerals:

Follow the General Presentation through Step #5. Take the Cutout Numerals and match them to the Numeral Cards.

Variation 1 - Even and Odd:

Follow the General Presentation using either Numeral Cards or Cut-out Numerals through Step #8. Ask the child to point out the Numerals that have counters that are only in pairs. Explain to the child that the numerals that have only sets of two are called "even numbers". The numerals that don't are called "odd numbers".

Variation 2 - Pick-up Even and Odd:

Use different ways to ask the child to pick-up the even or odd numerals.

Variation 3 - Quantity - Even or Odd?

The teacher should pick-up a quantity of plastic counters and give them to the child. Ask the child to lay the counters out in pairs and tell you if they have an even or an odd number.

Variation 4 - Symbol - Even or Odd?

The teacher should lay-out in order either the even or odd numerals and ask the child if the numerals, are even or odd. Next the teacher should invite the child to lay-out in order only the even numerals or odd numerals and tell the teacher whether they are even or odd numerals.

Variation 5 - Memory Game:

You will need two baskets; one for folded pieces of paper that have the numerals 0-10 written on them. The other basket should have 55 objects and should be placed somewhere else in the room. Have the

children sit in a circle and pass around the basket with the numerals.

Each child is to pick one piece of paper and open it up and then re-fold it and place it on the rug in front of them. Next, the children leave the circle and go fetch the number of objects they need from the object basket. They return to the circle and sit down. Immediately they place the objects on the rug in front of them and re-open the folded piece of paper. They say the numeral out-loud and then count the number of objects they have to see if they match.

Points of Interest:

1. Making pairs of counters

Control of Error:

1. The child has counters left-over
2. The child does not have enough counters

Aims:

Sequencing numerals, memory, introduction of even and odd numerals, making sets, preparation for higher math, etc.

Approximate Age:

4 and up

Language:

Even, odd, etc.