

Kindergarten Lesson Summary

Overall Objectives

This lesson will help students to:

- Count quantities up to 10;
- Connect pictorial representations (dot sets) and symbolic representations (numerals).

Learning Expectations

Students will:

- Demonstrate understanding of sets and whole numbers; Km1
- Count orally to 30, and use cardinal and ordinal numbers during play and daily classroom routines (e.g., identify first, second, and third places in a race); Km11
- Recognize and write numerals from 1 to 10. Km12

The code that follows each learning expectation comes from the Ontario Curriculum Unit Planner. See www.ocup.org for further details.

Materials

- Teacher's set of 10 dot cards – approximately 21.5 cm x 28 cm; each card shows 1 to 10 dots
- Teacher's set of 10 number cards – approximately 21.5 cm x 28 cm; each card shows numerals from 1 to 10
- A set of 10 dot cards for each pair of students – approximately 10 cm x 14 cm; each card shows 1 to 10 dots
- A set of 10 number cards for each pair of students – approximately 10 cm x 14 cm; each card shows numerals from 1 to 10
Suggestion: Make the sets of cards on different coloured paper so that it is easy to sort the cards when the activity is finished.
- Home Connections –The Matching Game (one per student)

Approach

Get Started

In a guided learning session:

- Show students cards with 1 to 10 dots, and ask them to count the number of dots on each card. Have the students clap and count aloud each time you point to a dot on the card.
- Next, show students a number card. Ask them to tell the number of times they need to clap for the card. Together with your students, clap the number of times shown on the card.
- Mix up the dot cards and number cards, and show them again, one by one. As you show the cards, have the students clap the number of times to match the dots or number.
- Display all the dot cards and number cards. Ask your students to find the pairs of cards that match.

Work on It – Model the Activity

In a guided learning session, demonstrate the game that students will be playing with a partner.

- Choose two students for the demonstration.
- Shuffle the dot cards and give 5 cards to each player. The players each place their 5 cards face up in front of them.
- Place the pile of number cards face down between the players.
- Taking turns, the players turn over one number card at a time. The player who can match a dot card with the number card that has been turned over gets to keep the pair of cards.
- The game continues until all the number cards have been turned over and matched with a dot card.
- Now have the whole class play the game.

Work on It – Observe and Assist Students

In a shared learning session:

- Observe how well students are able to match dot cards and number cards.
- Probe students' thinking by asking questions such as:
 - What cards have you matched already?
 - How do you know that these two cards match?
 - How does this game help you get better at counting?

Reflect and Connect

In a guided learning session:

- Help students reflect on the activity and their learning by asking questions such as:
 - Did you think this was a good math game? Why?
 - How did you know if a number card and a dot card matched?
 - Do you think this is a good game for practising counting? Why is this a good counting game?
- Suggest to the students that the matching game might be a good game to play at home. Demonstrate to the students how they can make the dot cards using blank cards and bingo dabbers (use markers or gummed circles if bingo dabbers are unavailable), and how they can make the number cards by printing numerals on blank cards. Discuss the number of dot cards and number cards that students need to complete. Provide time for students to work on their cards.

Assessment

Observe how well students:

- Count dot sets;
- Clap the appropriate number of times for dot and numeral cards;
- Match dot sets to corresponding numerals.

Extensions/Adaptations

Provide this lesson as a guided learning experience for students who are not ready to work with a partner.

Decrease the number of dots for students who are learning to count smaller quantities.
Increase the number of dots for students who are able to count larger quantities.

Home Connections

Encourage students to play the matching game with someone at home, using the dot and number cards. Provide opportunities for students to practise how they will explain the game procedures to friends and family members.