

Numbers in Nature

Early Stage 1

Lesson Overview

Overview	Go on an exploration the playground to find out about numbers and patterns.
Inquiry Questions	<p>Consider: What do we notice about numbers outside? Where do we find numbers in our school?</p> <p>Act: How can we make collections to represent numerals? What can we find to make numerals out of in our playground?</p> <p>Reflect: How can I search for numbers and patterns when outside?</p>
Syllabus Outcomes	<p>MAe-1WM Describes mathematical situations using everyday language, actions, materials and informal recordings.</p> <p>MAe-2WM Uses objects, actions, technology and/or trial and error to explore mathematical problems</p> <p>MAe-4NA Counts to 30, and orders, reads and represents numbers in the range of 0 – 20.</p>
Equipment and Materials	<p>Paper and pencils to record information (optional)</p> <p>Natural materials</p> <p>Numeral cards 1 – 30</p> <p>Camera/ device to take photographs for use in follow-up lessons</p>

Lesson Details

Teaching and Learning Activities
<p>Activity 1: Warm-up Game Play a game of hide and seek in the playground. Ask the class to go and hide in a set area, encourage them to find places they have never been before. The seeker counts to thirty and finds their classmates. Extend the game by counting from a designated number and counting on, counting backwards from 30 or encourage counting by tens.</p>
<p>Activity 2: Whole Class Number Hunt Go on a walk around the playground or nearby streets to search for numbers. Take photographs or draw your findings. Search for interesting numbers in suprising places. Where do you find them in your school? Is it the hopscotch markings, the basketball court, labelling classrooms or in the canteen?</p>
<p>Activity 3: Individual Number Collections Make a set of flashcards with the numerals 1 – 30. Give each student a flashcard, with the students holding them place the numerals in order from 1 – 30. Ask the students to make collections to represent the numeral on their own flashcard. Collections might be of leaves, sticks, stones, pebbles or flowers. Take photographs of the collections for use in a class book.</p>
<p>Activity 4: Partner Activity Numeral Formations Using the numeral flashcards 1 – 30 hand them out to students. Provide them with pebbles and ask them to make the numeral. Extend the activity and students can go searching for natural materials to make their numerals. Challenge the class to make the numerals 1 – 30 in a row!</p>

CP_Numbers in Nature_ES1.docx is the property of Botanic Gardens and Centennial Parklands