

# Moving with Multiplication

Stage 1



## Lesson Overview

<b>Overview</b>	Go out into the playground, be active as you complete skip counting and search for groups of objects.
<b>Inquiry Questions</b>	<p><b>Consider:</b> How can we use the playground to help us with skip counting? Where are there groups of objects in nature?</p> <p><b>Act:</b> How can we use natural materials to represent groups? What groups of objects can I find in the playground?</p> <p><b>Reflect:</b> How can I continue finding and making groups in the outdoors?</p>
<b>Syllabus Outcomes</b>	<p><b>MA1-1WM</b> Describes mathematical situations and methods using everyday and some mathematical language, actions, materials, diagrams and symbols</p> <p><b>MA1-2WM</b> Uses objects, diagrams and technology to explore mathematical problems.</p> <p><b>MA1-6NA</b> Uses a range of mental strategies and concrete materials for multiplication and division.</p>
<b>Equipment and Materials</b>	<p>Paper and pencils to record information (optional)</p> <p>Natural materials</p> <p>Chalk</p> <p>Camera/ device to take photographs for use in follow-up lessons</p>

## Lesson Details

<b>Teaching and Learning Activities</b>
<p><b>Activity 1: Warming Up</b> In the playground practice skip counting by twos, fives and tens. Use the features you have to make skip counting real e.g. pavement squares, tiles or steps. Possibilities for active skip counting could include: climbing two steps at a time and counting as this happens, jumping and counting by twos, fives and tens or only stepping on every second paver.</p>
<p><b>Activity 2: Number Line Jump</b> Ask the children to draw chalk number lines to 20 on a paved or concreted section of the playground. Children stand on the numeral zero. The teacher calls out a numeral (two, five or ten) and the children skip count using that number as they jump along their number line.</p>
<p><b>Activity 3: Nature Groups and Collections</b> Model multiplication as groups of natural materials. Examples include: counting bundles of sticks in groups of ten, laying out sticks in groups as five like a tally or finding leaves and placing them in groups of three. Once the groups are made model skip counting and record findings in simple drawings.</p>
<p><b>Activity 4: Multiplication Scavenger Hunt</b> Go on a walk around the playground or nearby streets to search for groups of objects. Take photographs or draw your findings. Examples include: seedling trays as arrays, groups of trees together or three-leaved clovers. Be creative as you search for your groups!</p>

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