

Properties of number and Number Sequences

Bronze Level Teachers Notes p19

Learning intentions

- *to read and write and order whole numbers to at least 100.*
- *to understand use and begin to read odd and even numbers, sequence, predict, rule.*

Vocabulary

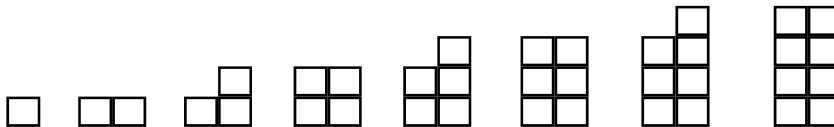
*odd
even
sequence
pattern
predict
equal
left over
on its own
pair
continue*

Resources

0-30 Number Line (Resource sheet 12)
Large 0-99 grid
Individual 0-99 grids (Resource sheet 1)
Multilink cubes

Lesson outline

- Use a counting stick to count along a number-line on the wall in 2s, starting with 0, up to 30. Count back. Repeat and record the numbers. Discuss the pattern or sequence of numbers. Do they know this sequence of numbers? (Remind them if necessary that these numbers are in the 2 times table. Tell the children these are called **even** numbers.
- Repeat counting in 2s starting with 1, up to 30. Count back. Repeat and record the numbers. Discuss the pattern or sequence of numbers this time. Is this sequence of numbers in the 2 times table? Tell the children that although we counted in 2s these numbers are not in the 2 times table. They are **odd** numbers.
- Repeat counting up and down in odd and even numbers, emphasising the unit digit pattern.
- Discuss why the numbers are called Odd and Even?
- Give each child about 20 multilink cubes. Start to count. 1 (1 is on its own so it is odd) 2 (2 make a pair so 2 is even) 3 (3 make a pair with one on its own so 3 is odd). Etc . Fit the cubes together as you go to visually show what is being said.



- Discuss the pattern, sequence of numbers. If the unit number is even, will the number be even? Predict what the next odd number or even number will be.
- Play odd/ even grab. Predict whether you will grab an odd or even number of cubes. Grab a (double) handful and pair cubes. Predict if it is an odd or even number? How will you know? (Encourage children to explain that if it divides exactly by two it is even. If there is one left over, it is odd). Count the cubes by counting in 2s and record answer and whether it is odd or even. Score one point for a correct prediction

KEY QUESTION

**What is the pattern of even/ odd numbers?
How do you know if a number is odd or even?**

Pupils complete page 19