Number Talks

Recognising, creating and describing patterns with numbers



Children often enjoy saying how they see something differently from someone else. Adults could show interesting arrangements of objects and invite children to talk about the numbers they see.

The Activity

Arrange five large magnets on a tin tray and confirm that everyone sees five. Ask, 'What numbers can you see hidden inside five?' Collect different views. Turn the board away to rearrange, show briefly and ask, 'How do you see them now?'

Encouraging mathematical thinking and reasoning:

Describing

Can you tell me how you saw them? Did anyone see them differently? How did Lucas say he saw them?

Reasoning

How did you know how many there were? Does this way make it easier to see how many there are? Why did you find it easier?

Opening Out

Has anyone got a quicker way of counting? Can you arrange your counters so that you can quickly see how many there are?

Recording Can you copy this pattern with your counters? Can you record this by drawing or stamping or with stickers?

The Mathematical Journey

Shape, space and position:

using spatial language, like 'on the top', 'underneath' or 'left' and 'right' Number:

perceptual subitising and cardinality - recognising small numbers without counting

part-whole awareness - talking about numbers being made up of other numbers and numbers within a number, e.g. "I knew there were three because there's two and there's one"

recognising doubles, e.g. "When I see six I see three and three"

conceptual subitising - recognising the whole number by subitising and adding subgroups, e.g. "There's two and two and one, and that makes five"





nrich.maths.org/early-years https://nrich.maths.org/early-years © University of Cambridge

