

Primary Mathematics Toolkit - Support material

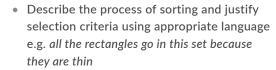
Sets and operations - Suggestions for children's learning experiences

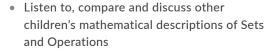
The child has opportunities to...



- Sort a variety of materials into sets according to specific criteria e.g. Today we are sorting the toy vehicles by type of vehicle
- Subitise (i.e. look at a small number of objects and recognise how many there are without counting) the number of objects in a set e,g. How many dots can you see on my paper plate?
- Identify and represent numbers in different ways e.g. dot representations of prime/ composite numbers
- Make links between the four operations e.g. Multiplication and repeated addition: 12×3 is the same as 12+12+12
- Use known facts to recall more complex facts e.g. $6 \times 12 = 6 \times 10 (60)$ $+6 \times 2 (12) = 72$







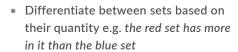
• Represent their understanding of Sets and Operations in different ways e.g. division as sharing

 Explain the rules governing prime and composite numbers and illustrate understanding.

 Model and/or describe a variety of ways to generate multiples and factors.







- Use estimation to calculate sums, differences, products and quotients of whole numbers
- Evaluate the efficiency of their mental strategies for operations and rank in terms of efficiency
- · Create conjectures based on their investigations e.g. when you add two even numbers together, the answer is even
- Express generalisations using words and symbols, e.g. $4 \times 6 = 24 \text{ so } 24 \div 6 = 4 \text{ and}$ $24 \div 4 = 6$





- Order sets of objects according to their quantity
- Explore calculations in which the ideas developed for whole-number calculation do not apply e.g., fraction and decimal computation
- · Apply and use mental strategies and procedures for carrying out tasks e.g. using known facts, rounding and estimating etc.
- Apply knowledge of the four operations to real-world situations





Applying and problem-solving