

Packing

Sorting and describing, using mathematical properties such as size, shape, weight, capacity and pattern
Counting and comparing numbers



Children often enjoy putting 'like' things together, when putting things away and gathering them together.

Adults could have lots of boxes (or trays), perhaps 'shoe-box' style, available for children to use as well as large groups of small items like zoo/farm animals, train set carriages or any similarly shaped items.

The Activity

You could provoke the children by saying something like, "These have all got muddled up" as you present them with an assortment of small items.

Encouraging mathematical thinking and reasoning:

Describing

Tell me about your box and the ... you are putting away.
How many will fit? Will they all fit?

Reasoning

Looking at all the boxes we've got here, who has the most ... in their box?
How do you know?
Could we fit more/fewer in ...'s box?

Opening Out

Which boxes/trays would be best for keeping which things in?
Are some things better to be kept in something other than a box or tray? If so, what?

Recording

Do you want to make a new label for the box showing how many are inside?

The Mathematical Journey

Properties of shapes:

choosing particular trays/boxes for particular objects having analysed the properties of the shapes involved

Same and different:

grouping according to a rule, e.g. "These are good for our artwork when we need to stick bits onto card"

Counting and cardinality:

noticing that amounts increase as more are gathered together

counting and cardinality - progressing from knowing some number words to saying one number for each object, then knowing the number of the whole group

relative number size - comparing numbers

part-whole numbers - noticing numbers within numbers, for subgroups within collections

Development and Variation

Many settings use songs associated with different parts of the day. Using such songs can help children focus on packing things away.

Similar aspects of learning and development are highlighted in the activity [Collecting](https://nrich.maths.org/13528) <https://nrich.maths.org/13528> found in the NRICH EYFS collection. [Tidying](https://nrich.maths.org/8856) <https://nrich.maths.org/8856> is also linked to this activity but has more of a numerical focus.



Resources

Any objects and resources that need to be 'put away'.
A range of containers, for example, trays, boxes, baskets etc.

Download a PDF of this resource.



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