# Three particle pictures

**How can symbols explain states of matter while showing a model's limits?**

## Same symbols

Count the dots and state what they represent.

## Different arrangements

Describe one visible difference between two boxes.

## Motion not visible

Add a short motion explanation or an explicitly labelled arrow.

## A model limit

Name one detail these drawings do not measure.

Keep it, change it or leave it here. Sharing is optional.

# Choose a material from evidence cards

**Which stated properties matter for an invented design brief?**

## The brief

State which criteria are required and whether use is dry.

## The evidence

Keep the yes, no and unknown entries for cards A, B and C separate.

## First decision

Which card meets both original requirements, and why?

## Changed requirement

What happens when water resistance becomes essential?

Keep it, change it or leave it here. Sharing is optional.

# Plan a separation on paper

**Which property would a proposed separation use, and what remains assumed?**

## Input and rules

Name both components and state what the model filter catches.

## Caught output

Account for the four chip symbols.

## Passed through output

Keep the water and six salt symbols together.

## What is not solved

Explain which separation goal remains open.

Keep it, change it or leave it here. Sharing is optional.