

## Diffusion

- This simulation enables you to see how diffusion of particles work.
- Remember that diffusion is the movement of a substance (in this case, particles) from an area of high concentration (where there are lots of particles) to an area of lower concentration (where there are fewer particles).

### Open the simulation

- Under *number of particles*, make both the blue and red the same number.
- Press the + sign to the left of *Data* – this will show you how many particles of each colour are in each section.
- Click *Remove Divider* and watch how the particles diffuse around the whole rectangle and how it alters the numbers in the *Data* box.
- Now click *Reset Divider*.
- Put the number of blue particles to 100. Keep the number of red particles at 10.
- Click *Remove Divider*. Watch what happens and keep an eye on the *Data* box.
- Jot down what you notice about the movement of the particles.

The BBC have produced a guide entitled *What is diffusion?*. There is a video which talks about how diffusion is used in the coffee-making process. Click [here](#) to access the link.