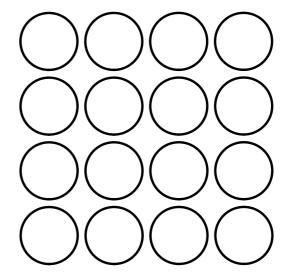


## **Particles**

Let's now use the particle theory to help us explain the differences amongst pure substances, homegoneous substances and heterogeneous substances.

To the right there is a grid made up of several circles. Let's say these circles represent particles. What could we do to change the circles to represent a pure substance, a heterogeneous substance or a homogeneous substance?

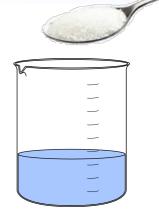




## Dissolving

We will now perform 2 demonstrations.

- 1. Add sugar to hot water.
- 2. Add pepper to hot water.



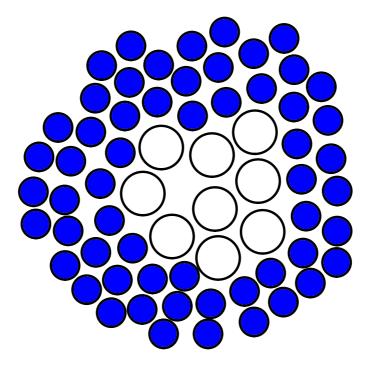
What did you observe?

What was the difference?

Can you use the particle theory to explain why this difference may have occurred?



Let's look at what the particles are doing when you mix sugar into water.



## Pure Substances and Mixtures

Any remaining time today may be used to work on incomplete work. You could finish up your filtration questions, or any review questions that are not complete from last class.

