

How can we separate river water into separate substances?

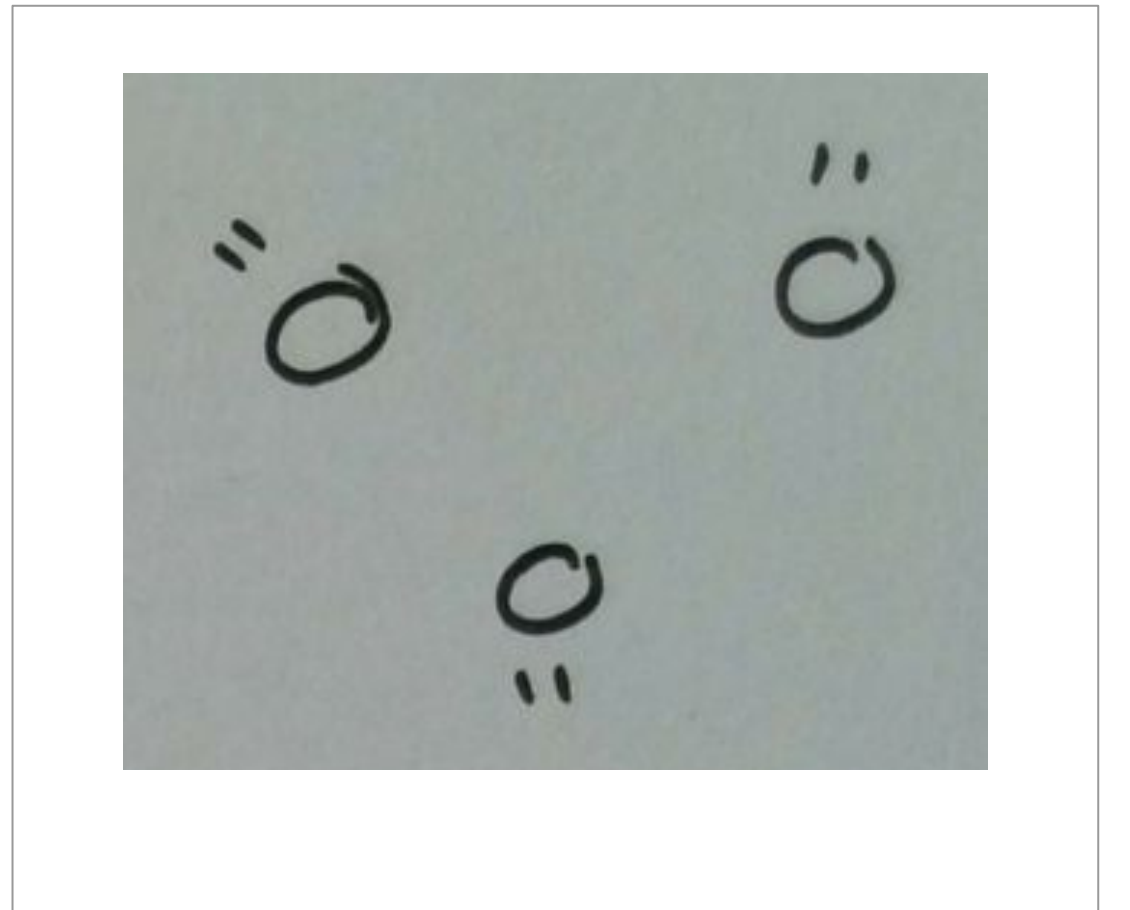
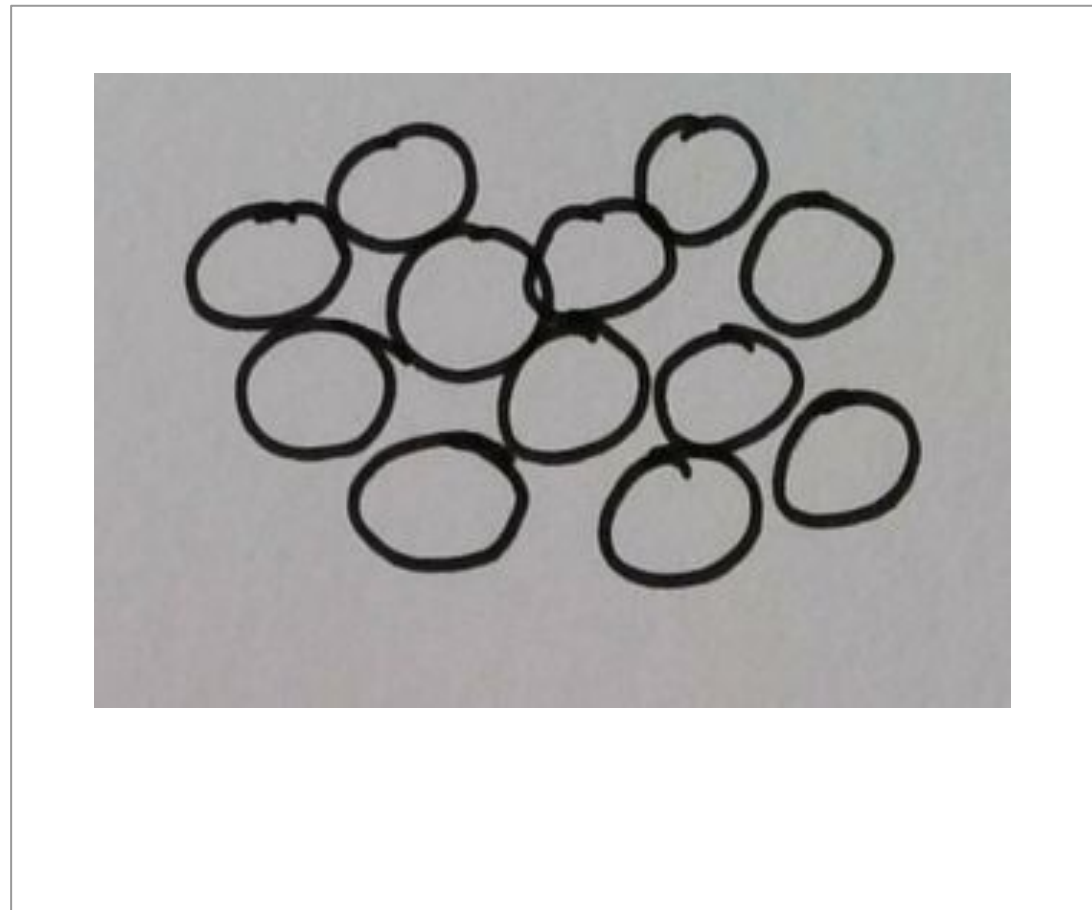
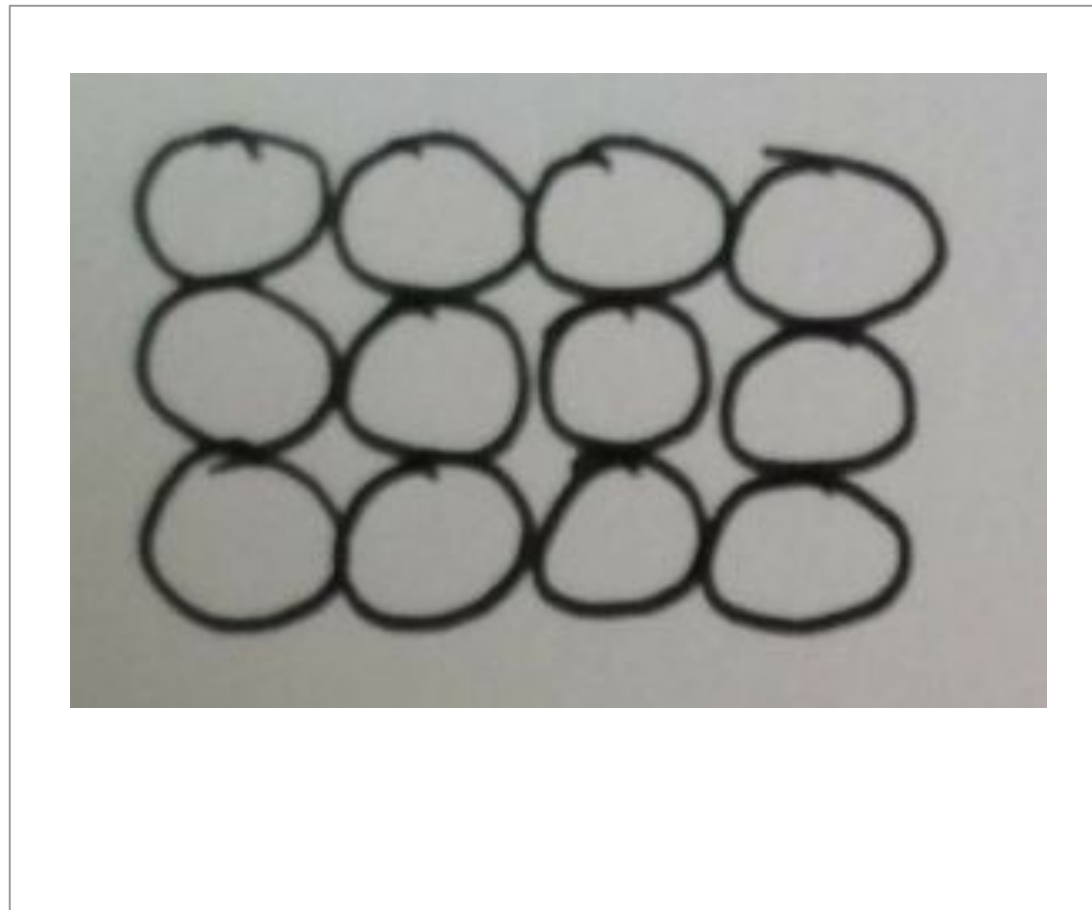
Worksheet

Science

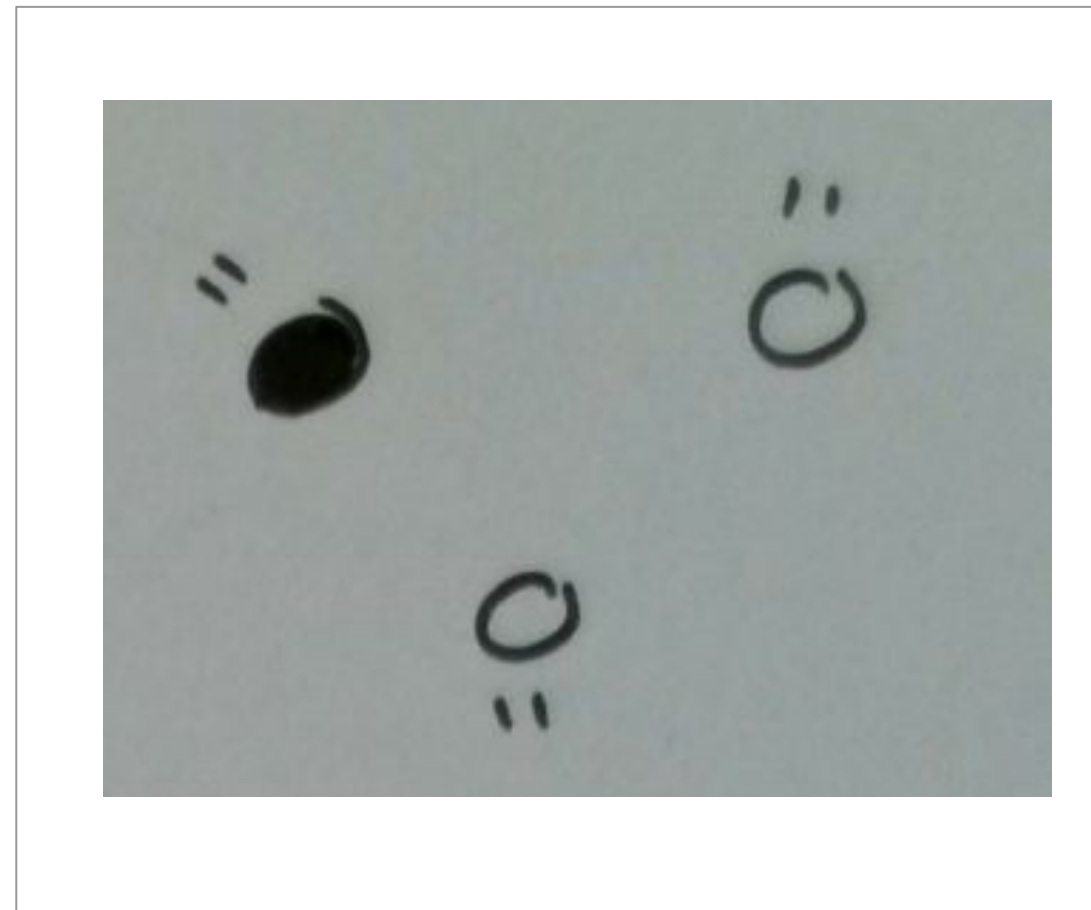
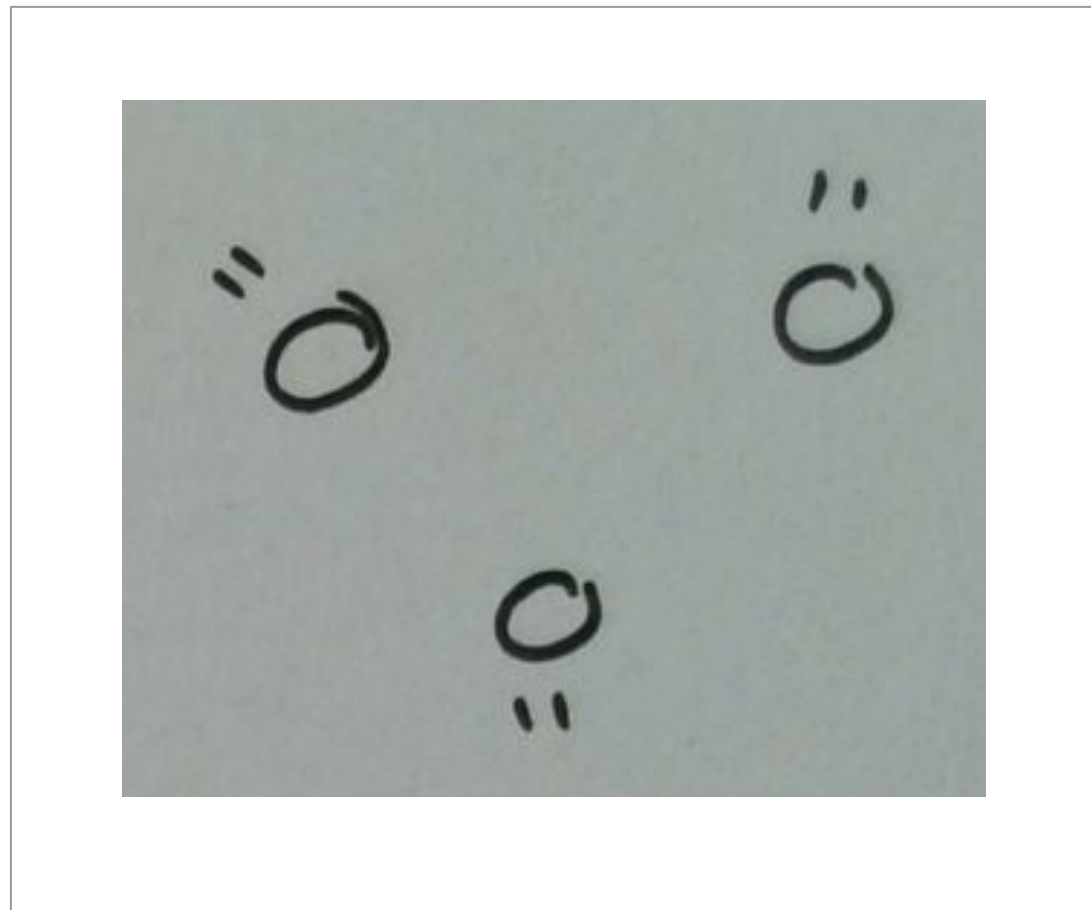
Miss Couves



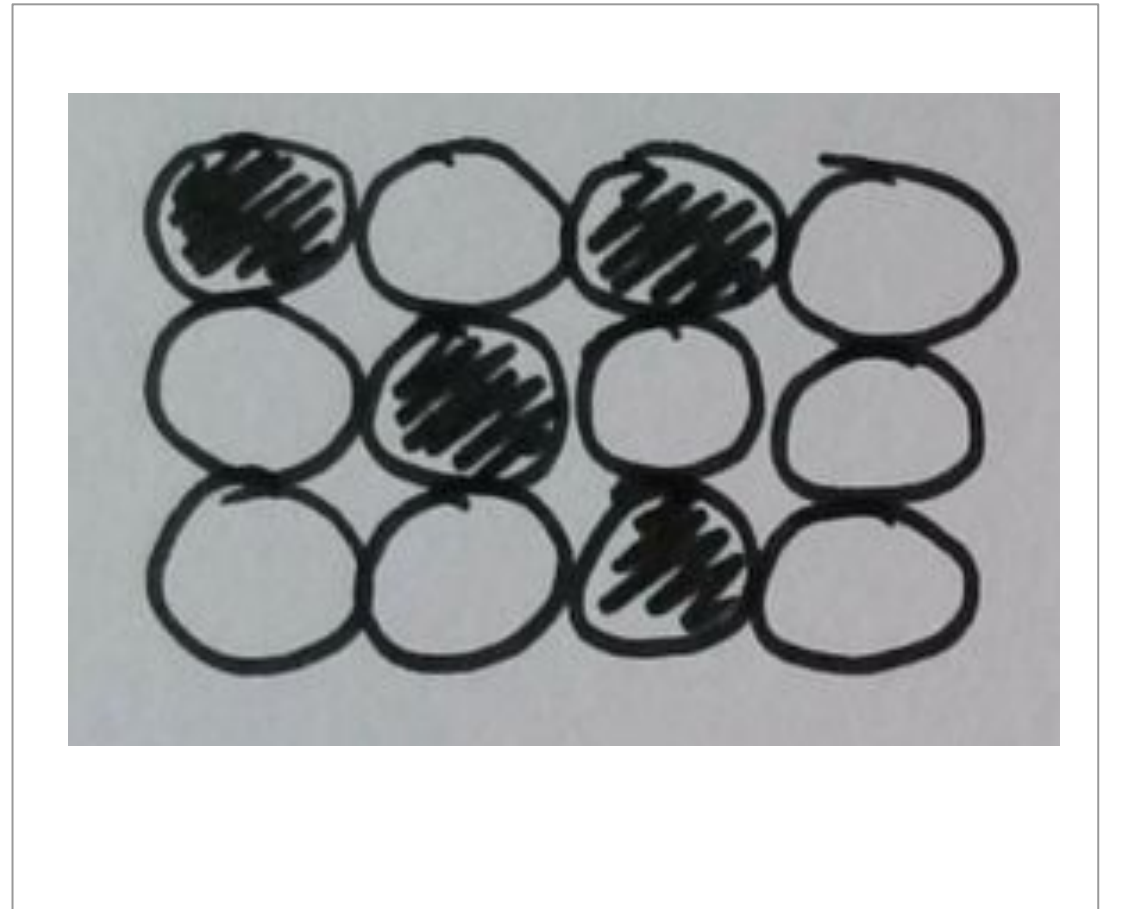
Which state of matter does each diagram represent?



Which diagram shows a pure gas?

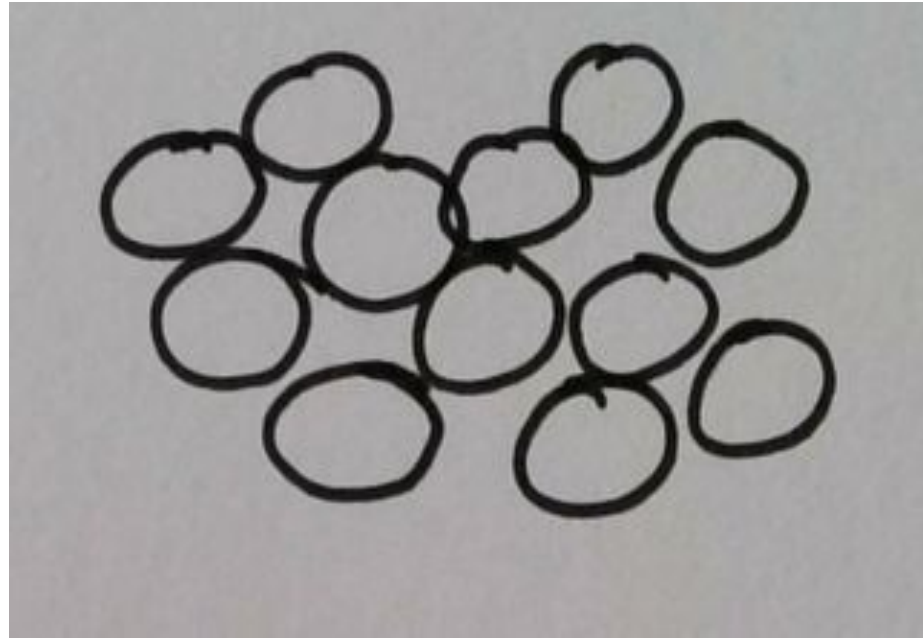


Pure metal or alloy?



Label the diagram: solution, solvent, solute.

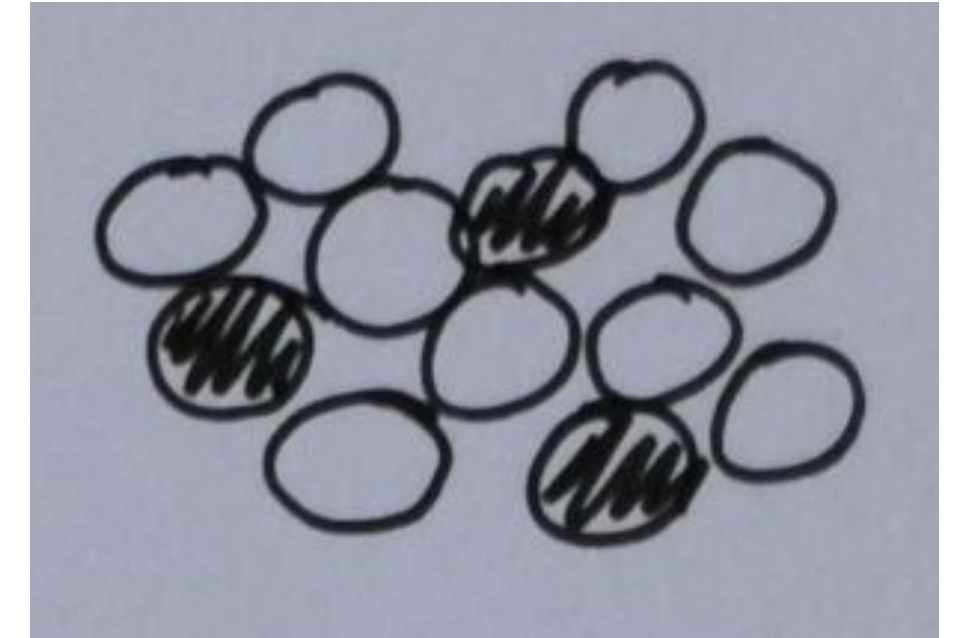
Water



Salt



Salty water



What is in river water?

River water is made up of soil, gravel and water.

- What state of matter are the three substances in?
- Is this sample pure or impure?
- Are the solids soluble or insoluble?



Image from Unsplash



How can we separate the substances in river water?

River water is made up of soil, gravel and water.

- How do we separate insoluble solids from a liquid?
- What do you notice about the difference in the size of gravel and soil particles?



Image from Unsplash



Writing a method:

1. Write a list of the equipment that you would need.
2. **Number** the steps in your method.
3. Start each step with a **verb**.



Image from Unsplash



Writing a method:

1. Write a list of the equipment that you would need.
2. **Number** the steps in your method.
3. Start each step with a **verb**.

E.g. **1. Place** the filter paper in the funnel and place the funnel into a cup.



Image from Unsplash



Evaluating a method:

1. Place the filter paper in the funnel and place the funnel into a cup.
2. Pour the river water sample into the filter paper.
3. Place the insoluble solids into a sieve.
4. Shake the sieve until the sand particles and gravel particles are separated.

Evaluation:

Two things that went well are...

One thing we could have done better is...

Redraft your method to make it better.

