

# How do particles behave inside solids, liquids and gases?

Science

Miss Couves



# What are the states of matter?

There are three states of matter.

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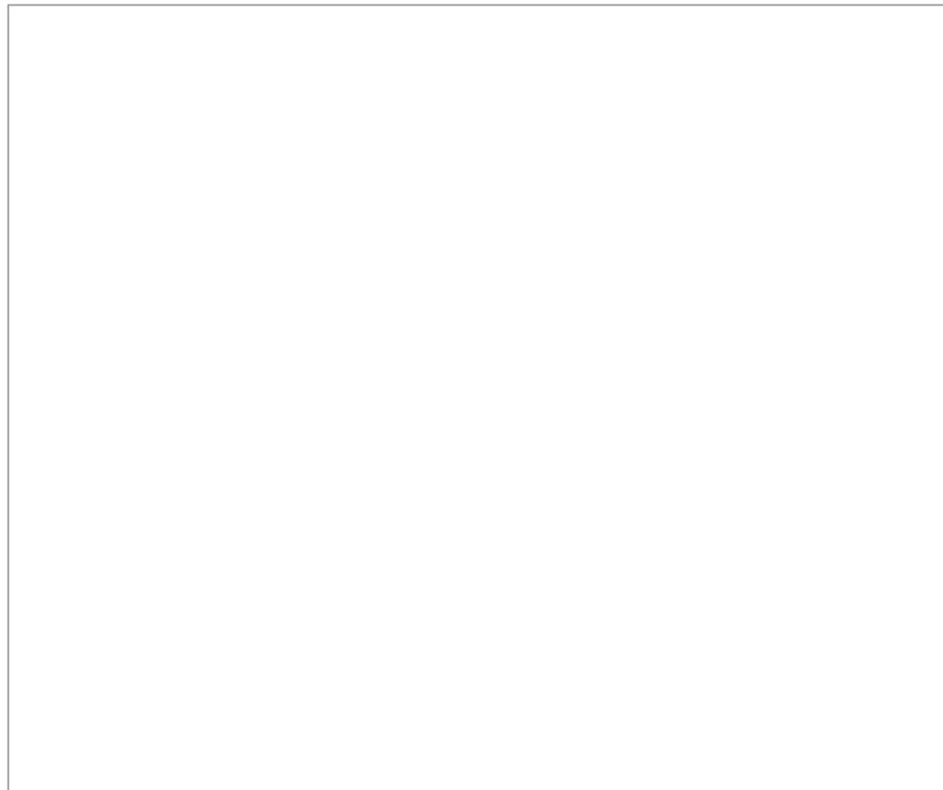
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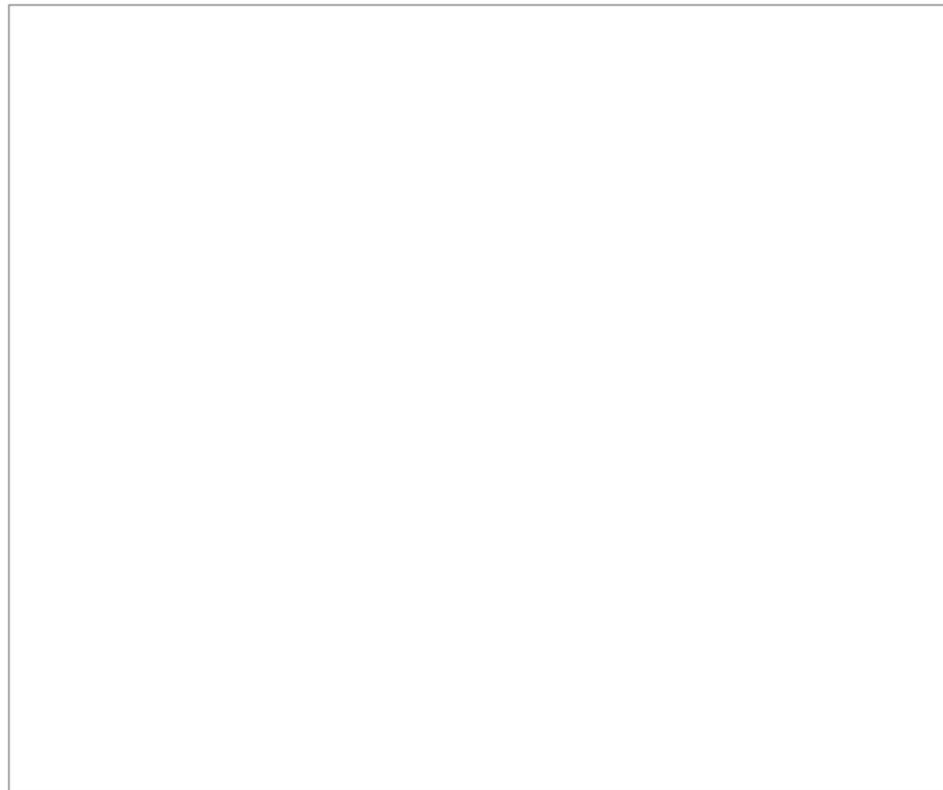


# What do the particles look like in solids, liquids and gases?

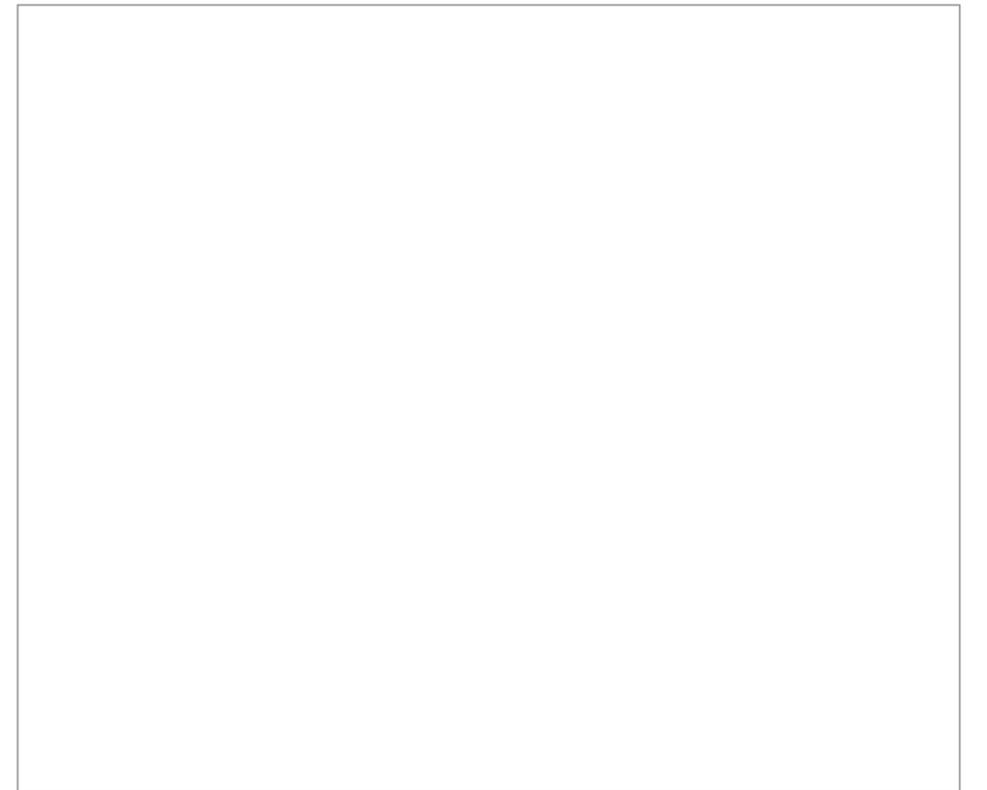
**Ice**



**Water**



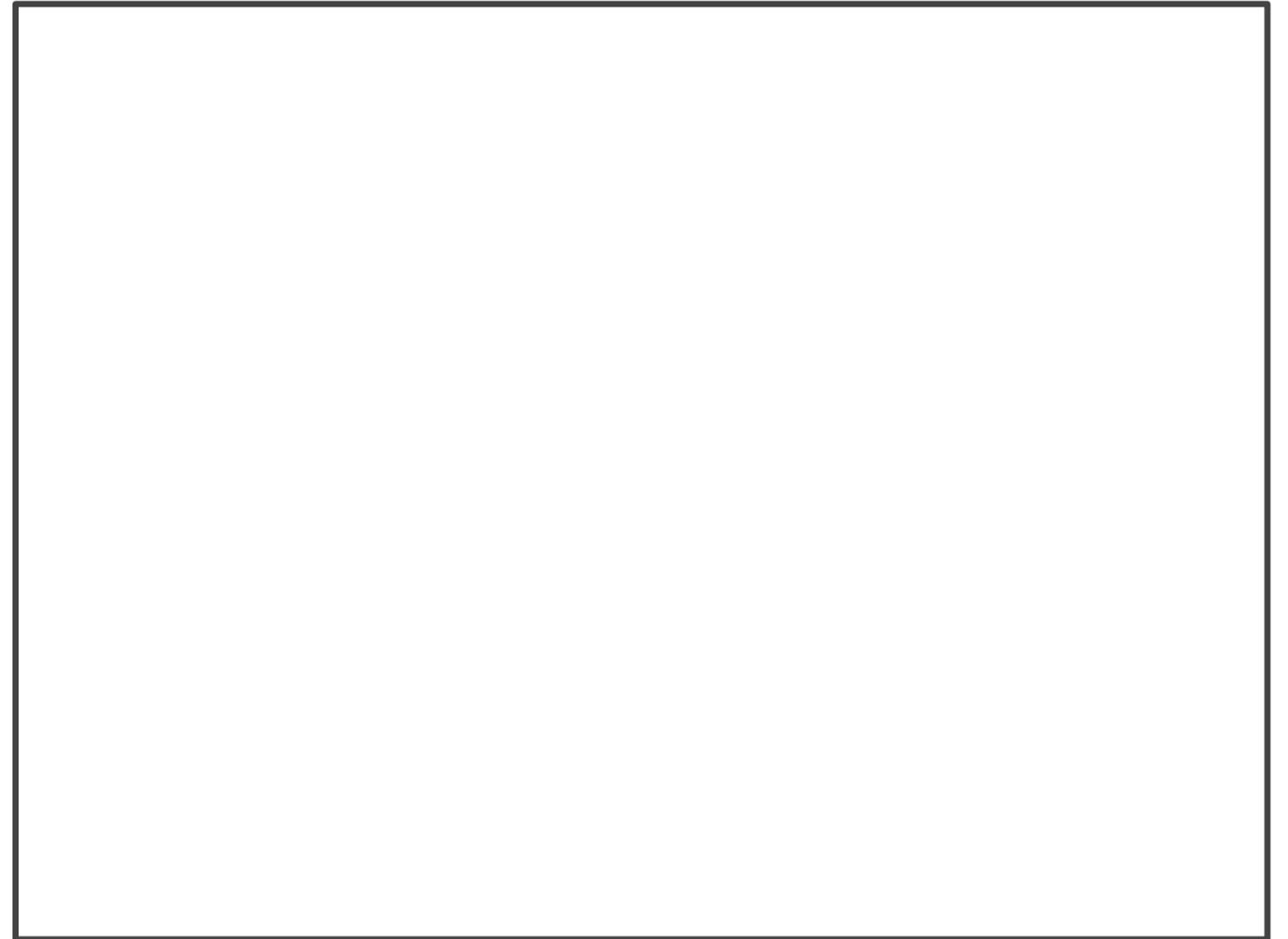
**Steam**



# Draw the particles in butter:

Questions to ask:

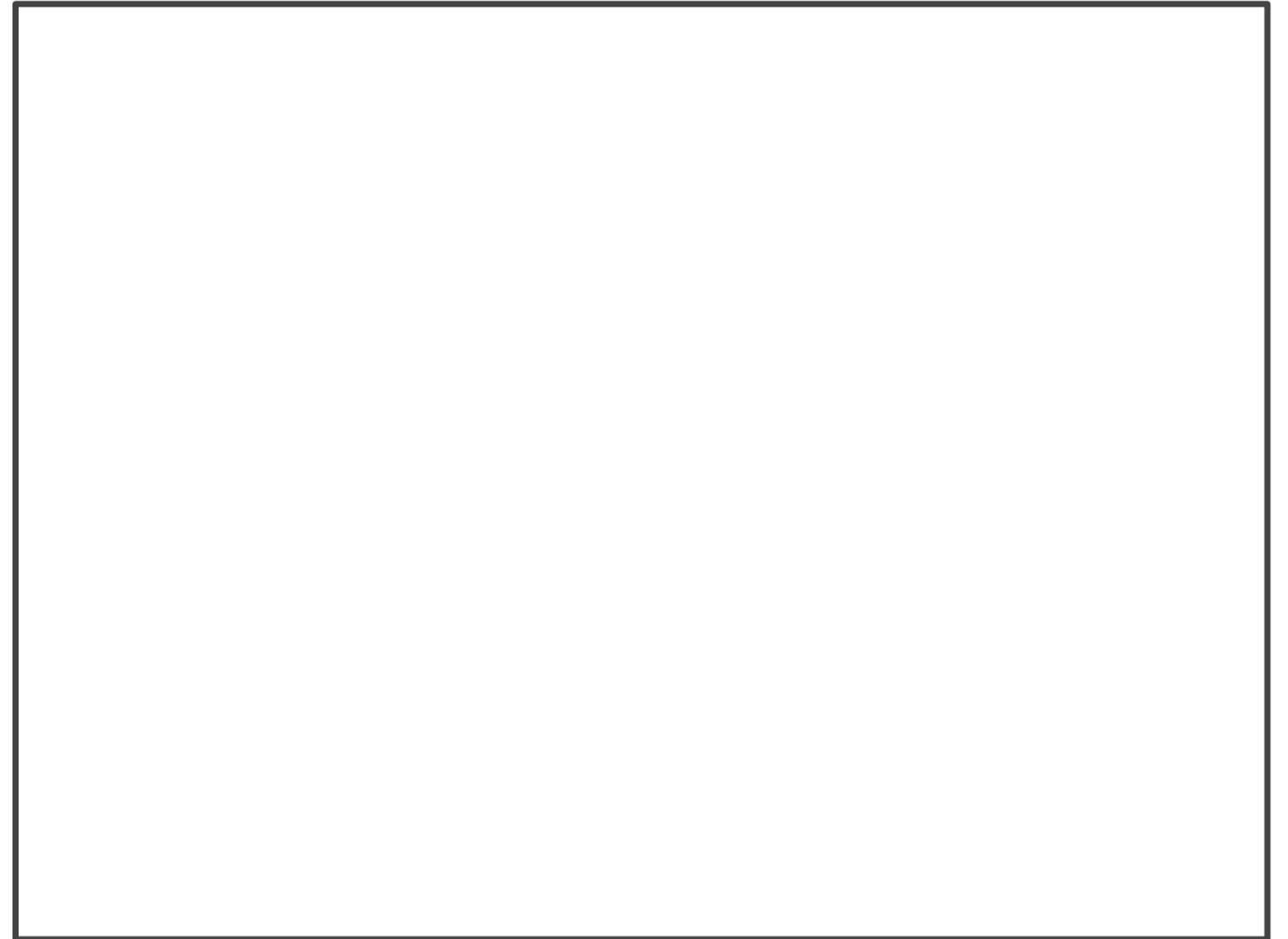
- Is the substance a solid, a liquid or a gas?
- Should the particles touch?
- Should the particles be ordered?
- Should the particles be moving fast?



# Draw the particles in juice:

Questions to ask:

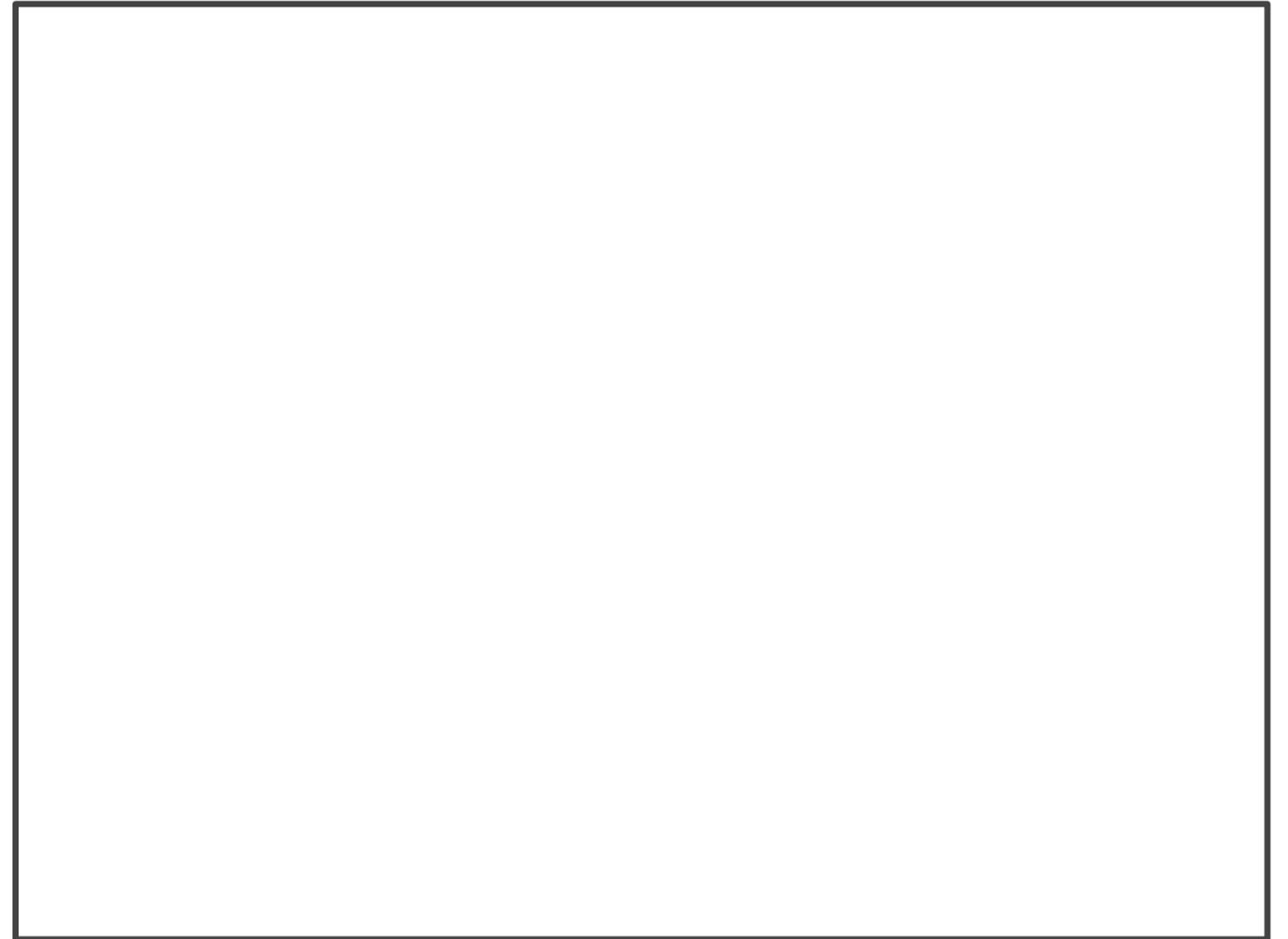
- Is the substance a solid, a liquid or a gas?
- Should the particles touch?
- Should the particles be ordered?
- Should the particles be moving fast?



# Draw the particles in helium:

Questions to ask:

- Is the substance a solid, a liquid or a gas?
- Should the particles touch?
- Should the particles be ordered?
- Should the particles be moving fast?



# Draw lines to match the description to the correct state of matter.

Solid

Particles are touching and in ordered rows

Liquid

Particles are far apart from each other

Gas

Particles are touching in a random arrangement



# How do the particles in juice behave?

Circle the right answer

- a)** They are touching but not moving at all.
- b)** They are touching and vibrating on the spot.
- c)** They are touching but can slide past each other.
- d)** They are not touching and move very quickly in all directions.



# How do the particles in butter behave?

Circle the correct answer

- a)** They are touching but not moving at all.
- b)** They are touching and vibrating on the spot.
- c)** They are touching but can slide past each other.
- d)** They are not touching and move very quickly in all directions.



# How do the particles in helium behave?

Circle the right answer

- a)** They are touching but not moving at all.
- b)** They are touching and vibrating on the spot.
- c)** They are touching but can slide past each other.
- d)** They are not touching and move very quickly in all directions.



# Draw lines to match the description to the correct state of matter.

Solid

Particles can slide past each other

Liquid

Particles are moving constantly in all directions

Gas

Particles cannot move but can vibrate

