

# What makes something pure?

## Worksheet

Science

Miss Couves



# What do the particles look like in ice, water and steam?

**Ice**

**Water**

**Steam**



# What do the particles in wood look like?

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?



# What do the particles in oil look like?

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?



# What do the particles in helium look like?

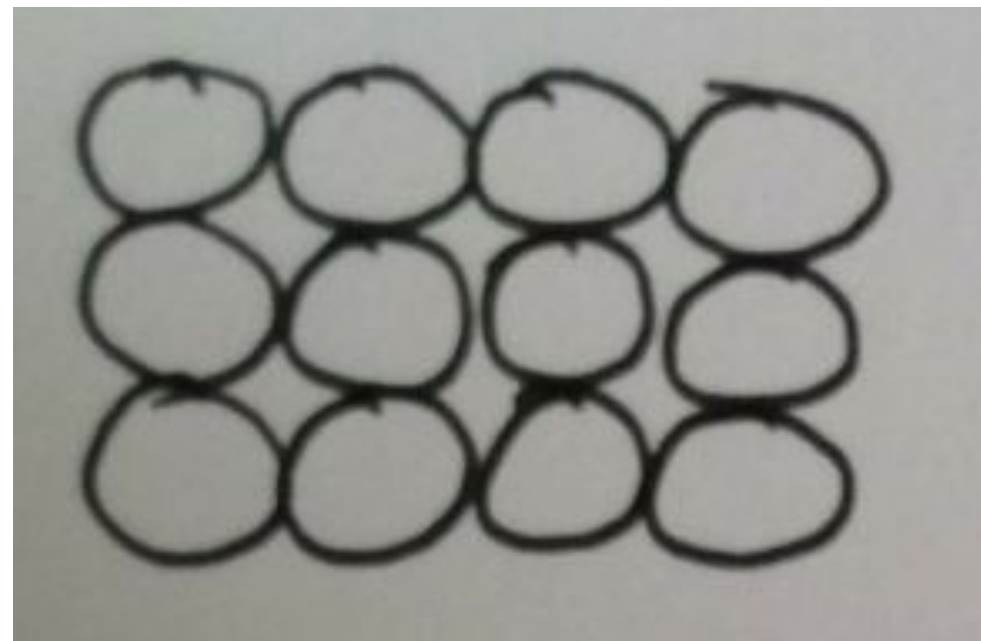
Questions to ask:

- 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?

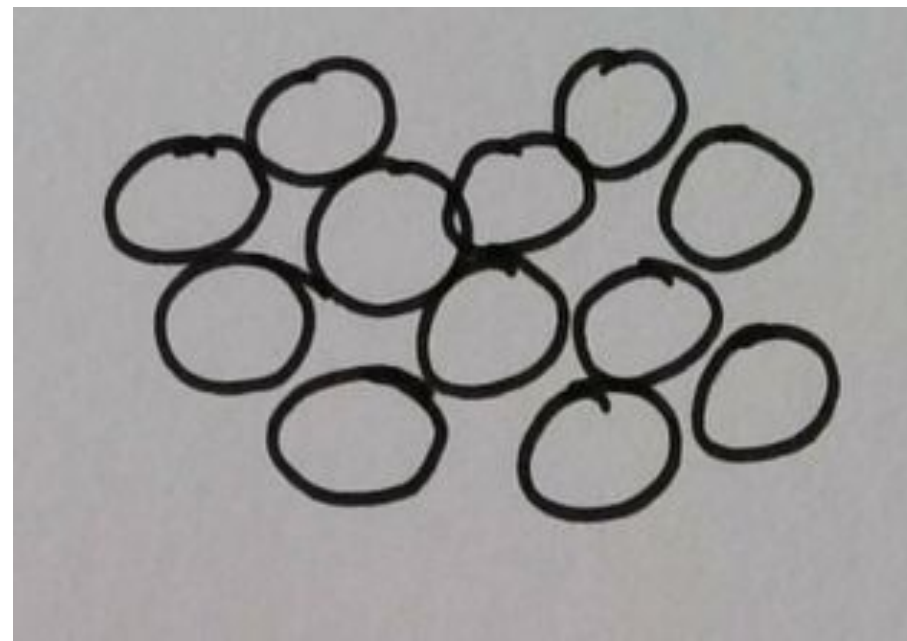


# Annotate the diagrams with how do the particles behave in solids, liquids and gases?

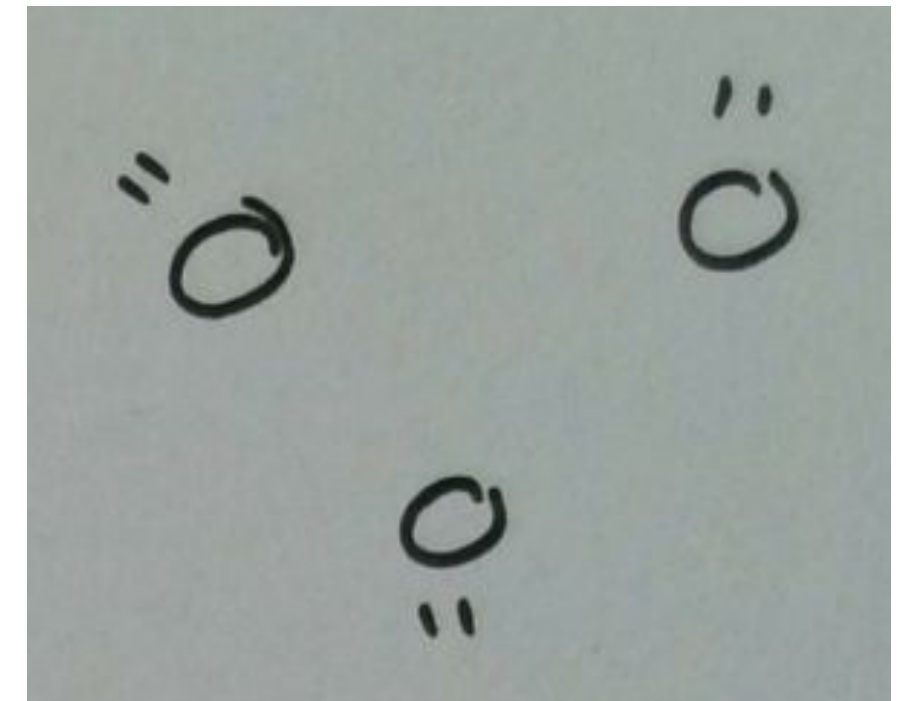
**Solids**



**Liquids**



**Gases**



# How do the particles in oil behave?

## Option 1

They are touching and vibrating on the spot.

## Option 2

They are touching but can slide past each other.

## Option 3

They are not touching and move very quickly in all directions.

## Option 4

They are touching but not moving at all.



# How do the particles in wood behave?

## Option 1

They are touching and vibrating on the spot.

## Option 3

They are not touching and move very quickly in all directions.

## Option 2

They are touching but can slide past each other.

## Option 4

They are touching but not moving at all.





# How do the particles in helium behave?

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They are touching and vibrating on the spot.

## Option 3

They are not touching and move very quickly in all directions.

## Option 2

They are touching but can slide past each other.

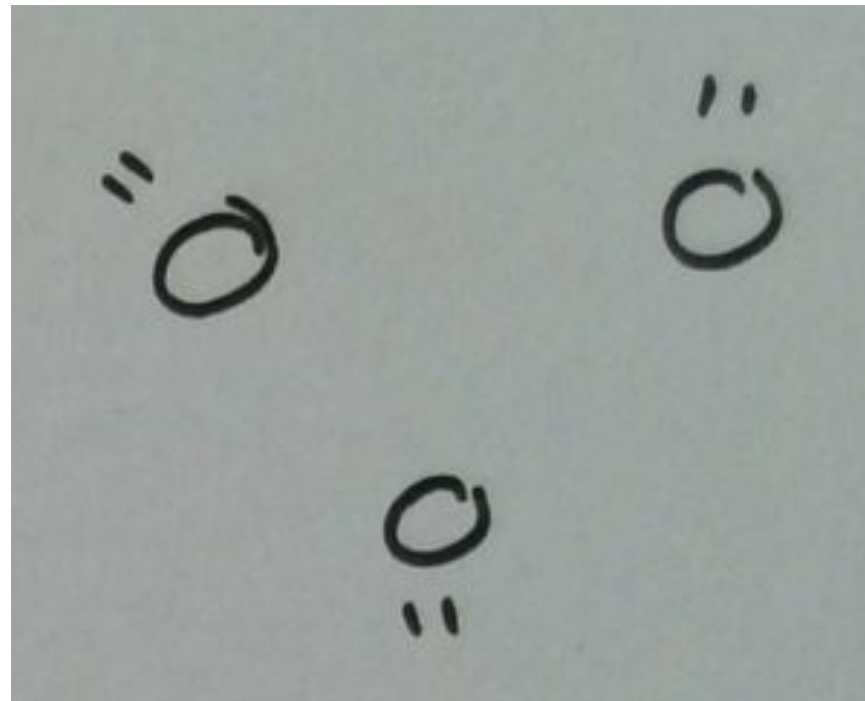
## Option 4

They are touching but not moving at all.

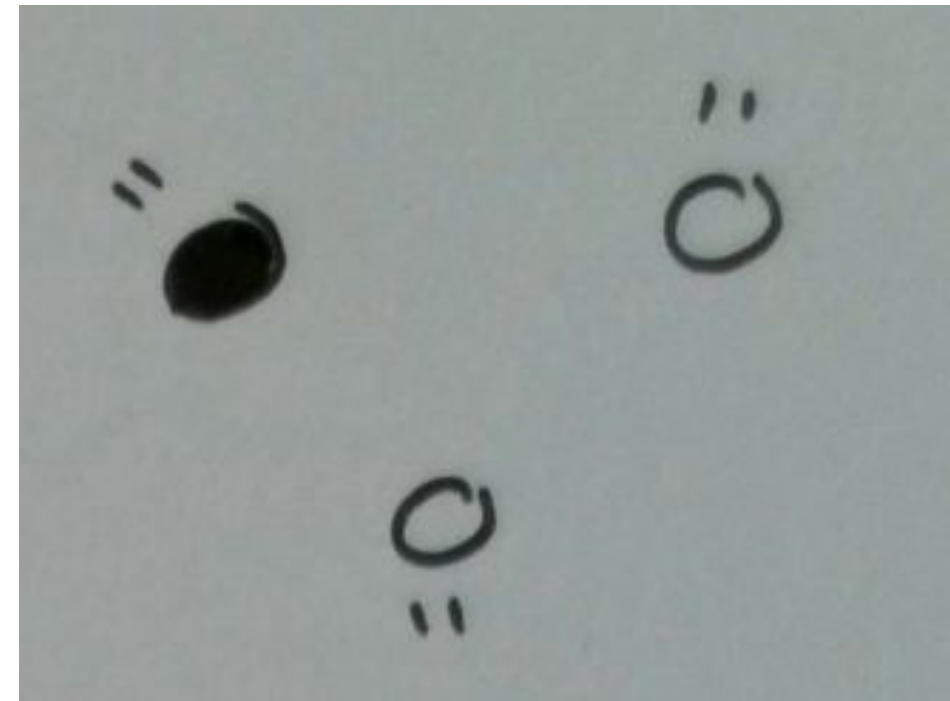


# Which substance is pure and which is impure?

Helium

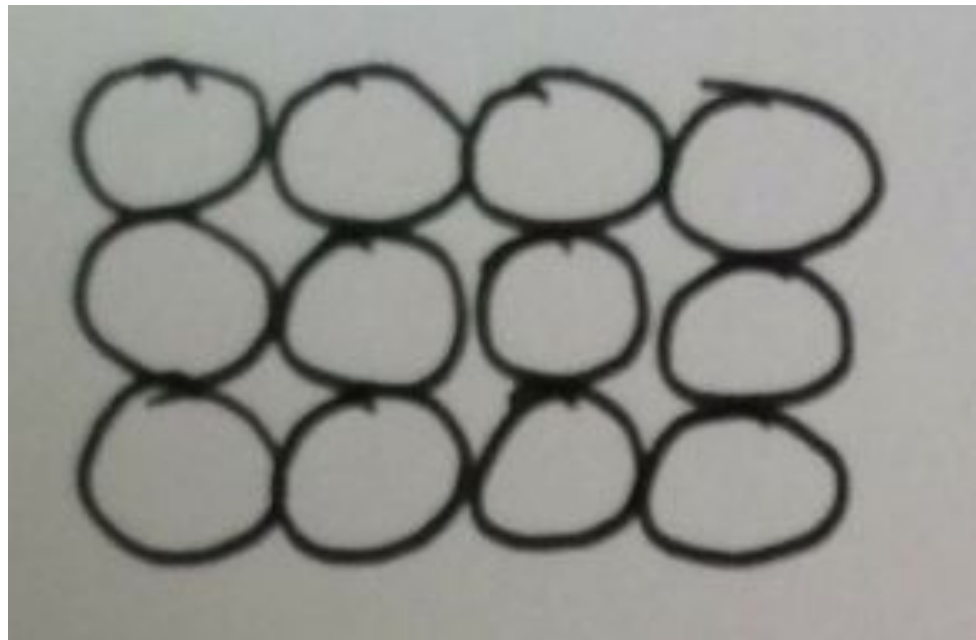


Air



# Which substance is pure and which is impure?

**Gold**



**Rose gold**

