

Physical and Chemical Changes



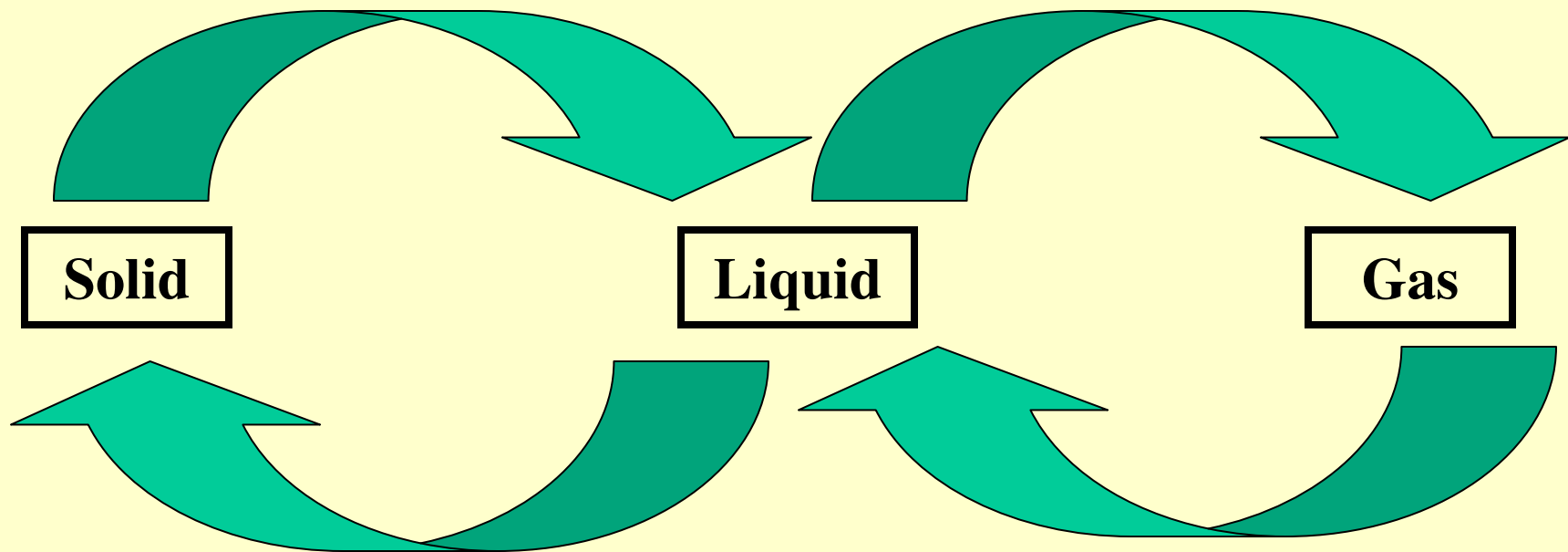
Physical Change

A change in which no new substance is produced



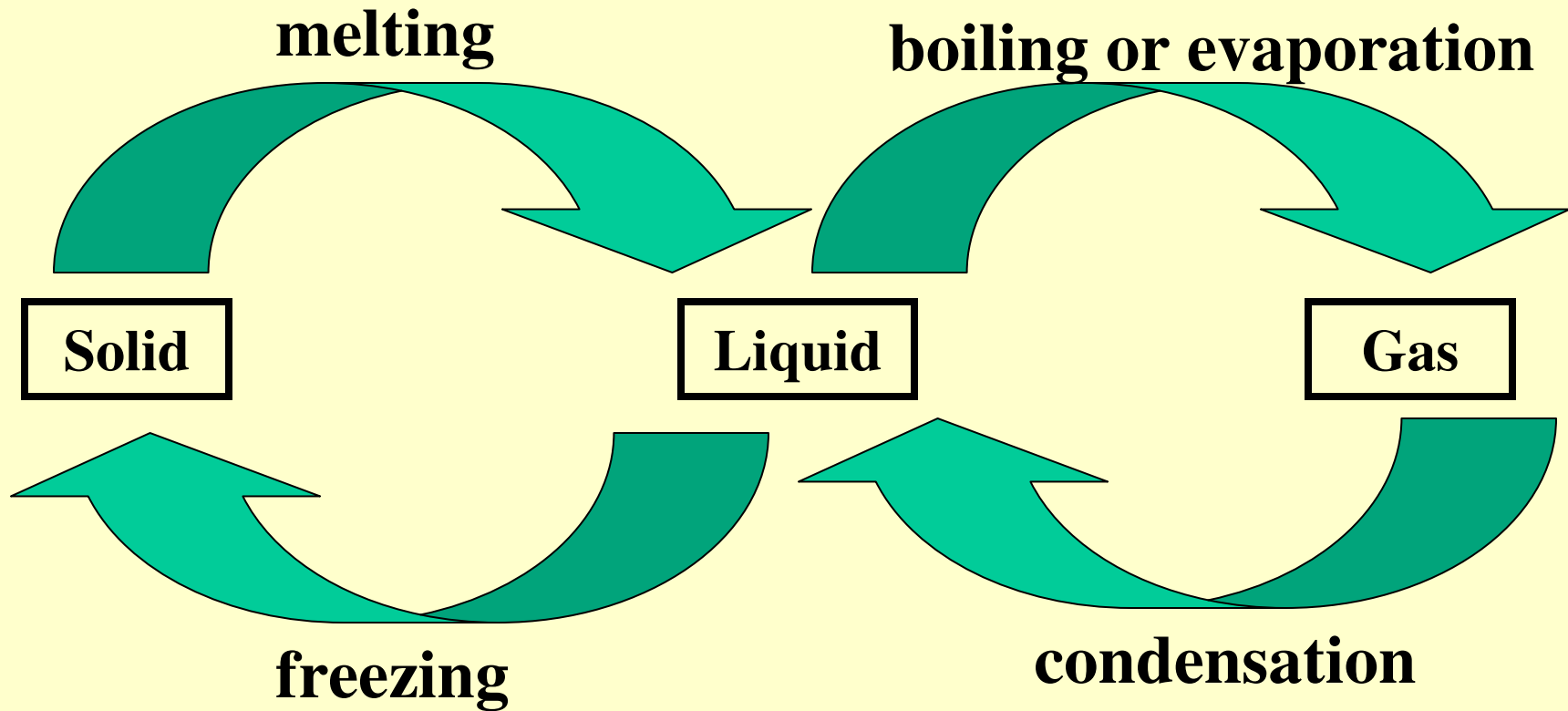
Physical Changes can be Phase Changes

Fill in the names of the following Phase changes:

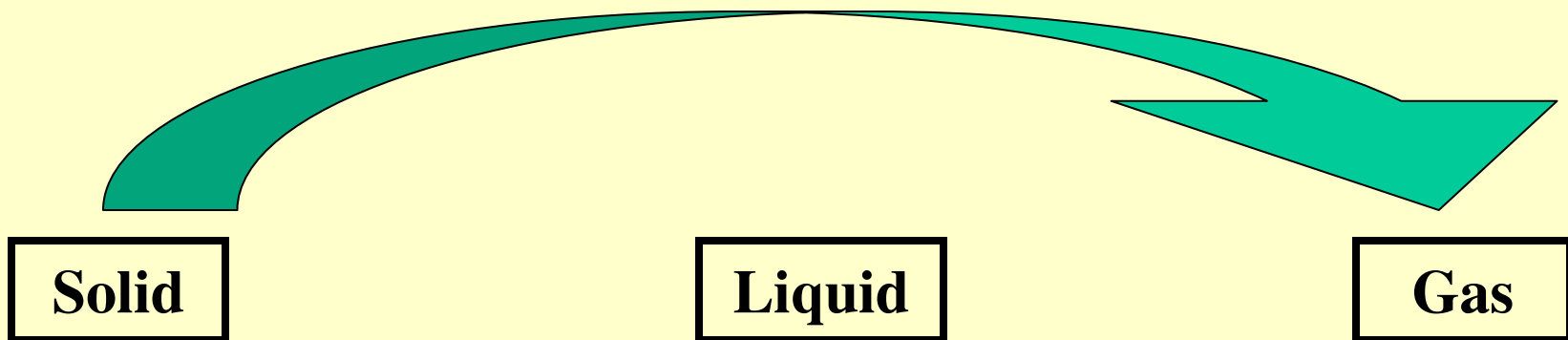


Physical Changes can be Phase Changes

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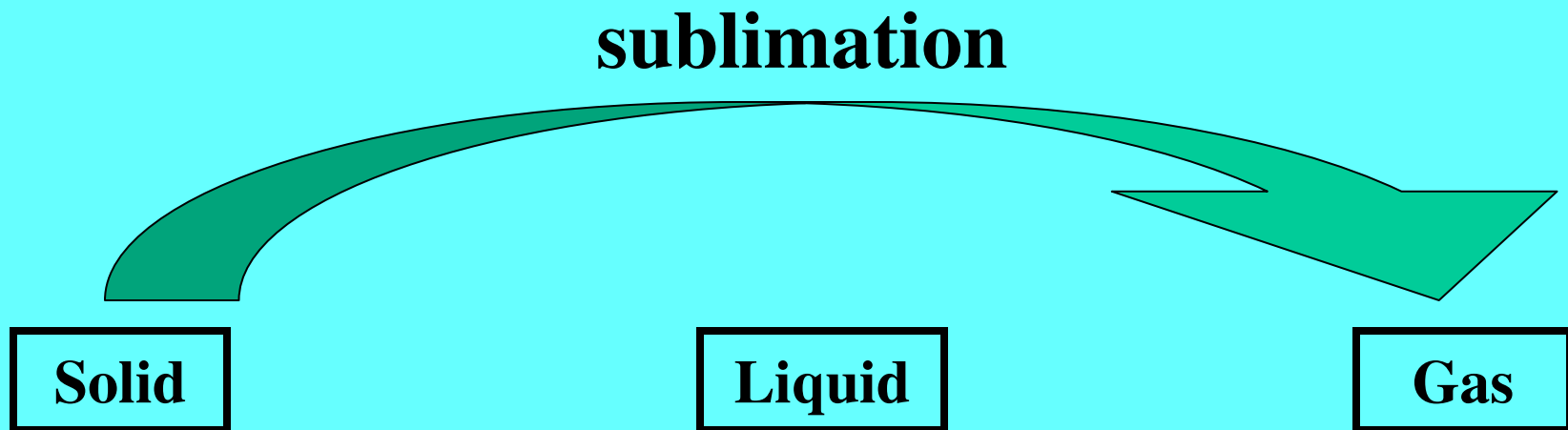


Fill in the names of the following Phase change:



Going directly to a gas, skipping the liquid state

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Going directly to a gas, skipping the liquid state

Other **Physical changes** could include things like:

- Mixing
- Dissolving
- Electric light bulb glowing
- Taking a digital picture

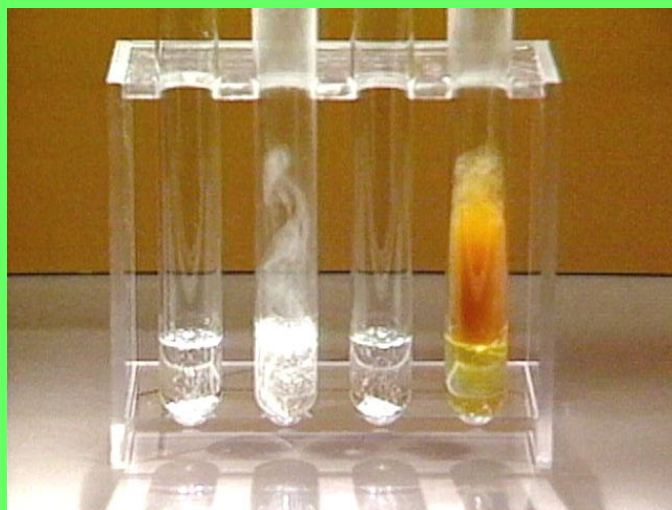


- ...
- ...
- ...
- ...



Chemical Change

A change in which at least one new substance is produced. Starting materials are used up.



thermite

Some examples of **Chemical Changes** are:

- **Burning (combustion)**
- **Explosions**
- **Cooking food (not just warming it up)**
- **Digestion**
- **Photosynthesis**
- ...
- ...
- ...

Clues that a Chemical Change has occurred:

A new colour may appear

Heat or light may be given off

Bubbles of gas may be formed (not boiling)

Solid material may form in a liquid (clear turns cloudy)

The change may be difficult to reverse

(NOTE: some can also happen in a physical change)