

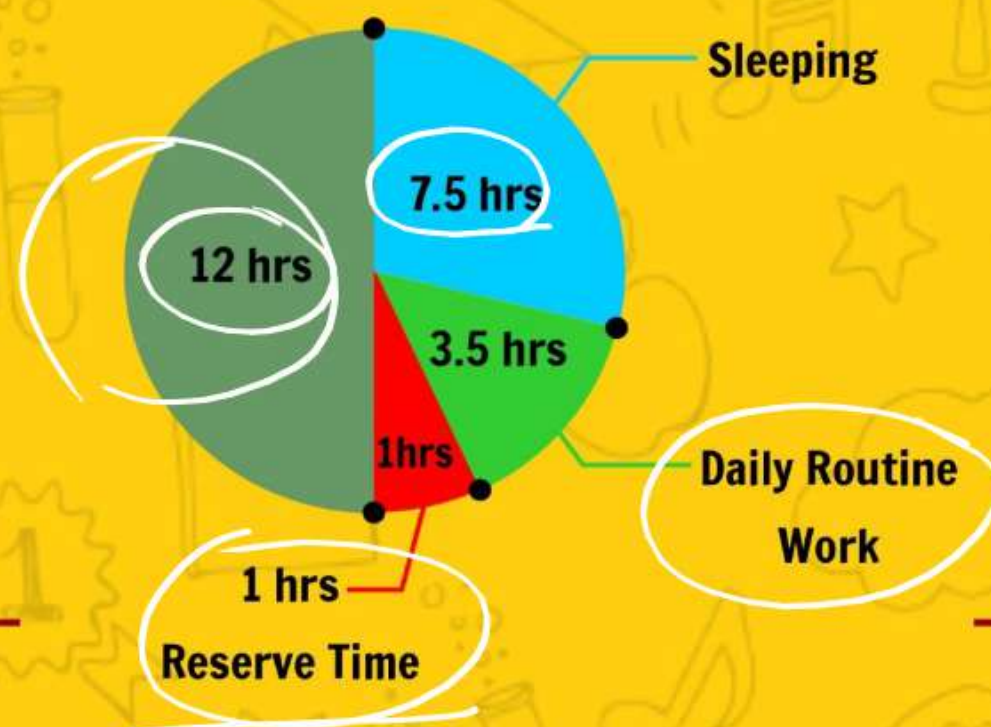
TIME MANAGEMENT

Study

Live Classes (4.5 Hrs)

Home Work (6 Hrs)

Revision (1.5 Hrs)



Daily Routine

Breakfast

Lunch

Dinner

Bath... etc.

Points to Remember

1. Fix subject wise time slots for homework for better efficiency and do not overshoot.
2. If you are not able to finish home work in time slot, use revision slot.
3. Sundays should be used for test paper and revision
4. Use three register:
 - (a) For Class Notes
 - (b) For Home Work
 - (c) For Revision



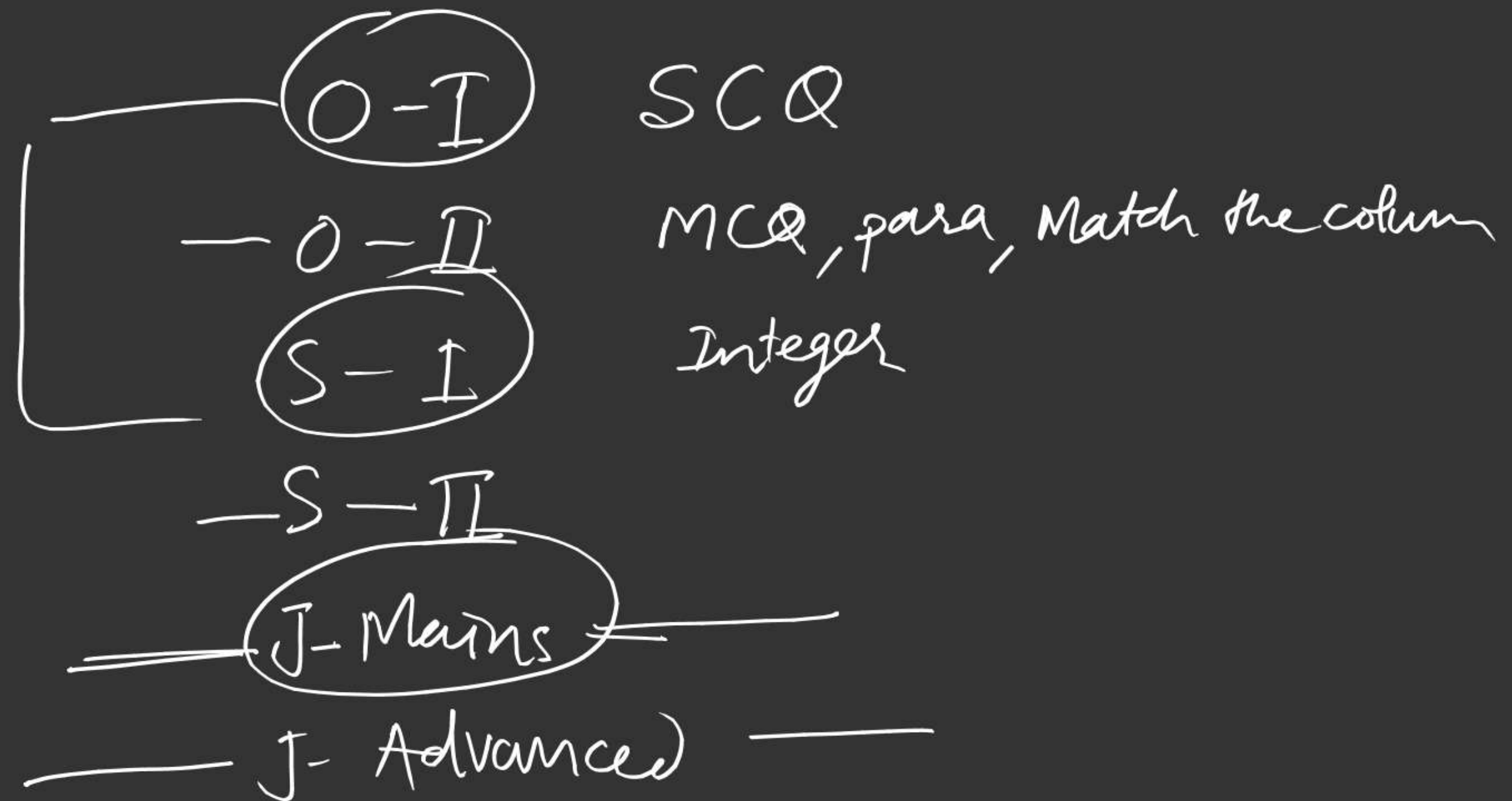
PHYSICAL CHEMISTRY SYLLABUS FOR JEE

11th Class

1. Mole concept
2. Concentration terms
3. Ideal gas
4. Real gas
5. Atomic structure
6. Redox Reactions
7. Chemical equilibrium

12th class

1. Solid state
2. Thermodynamic
3. Thermochemistry
4. Kinetics
5. Ionic equilibrium
6. Electrochemistry
7. Liquid solution
8. Surface chemistry



Solid State

This chapter mainly deals with structure of solids

In solids

Intermolecular forces are high

&
Thermal energy (translational kinetic energy) is low

There are two types of solid

Crystalline

1. Arrangement of atoms/ions remain same throughout the solid (crystal)
2. Long range order
3. ΔH_{fusion} is fixed
4. Cleavage plane is smooth

Amorphous

Arrangement don't remain same throughout the solid

short range order

ΔH_{fusion} may vary

Cleavage plane is zig-zag

5 It has sharp m.pt

6 Anisotropic

Examples

Metals ✓

Ionic comp. ✓

dic md ✓

Q1

2

Melts over a range of temperature

Solid < 500-600 K < liq

→ Isotropic in nature

Examples

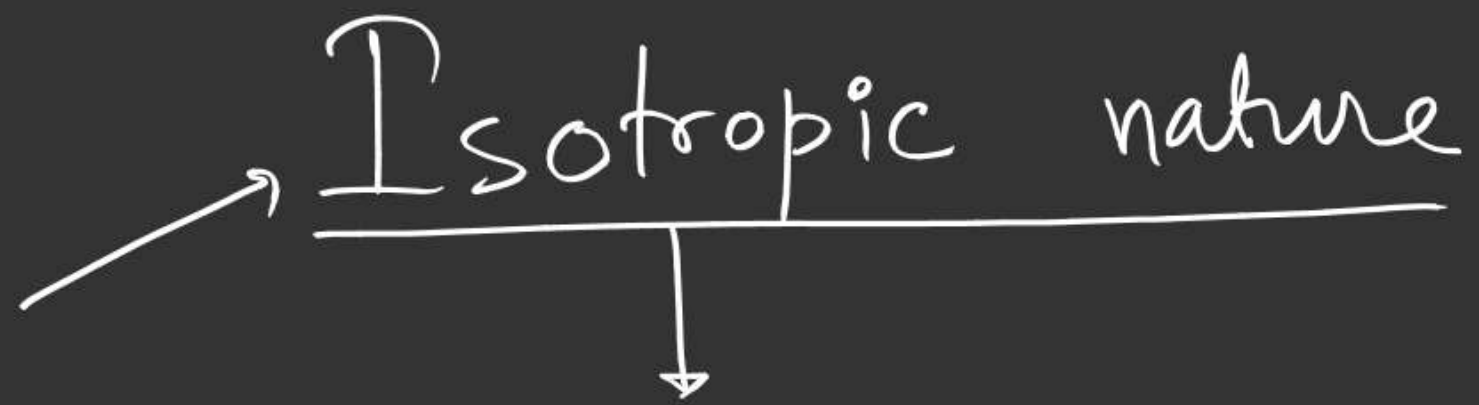
→ glass

→ polymer

→ Rubber

→ plastics

→ Isotropic nature

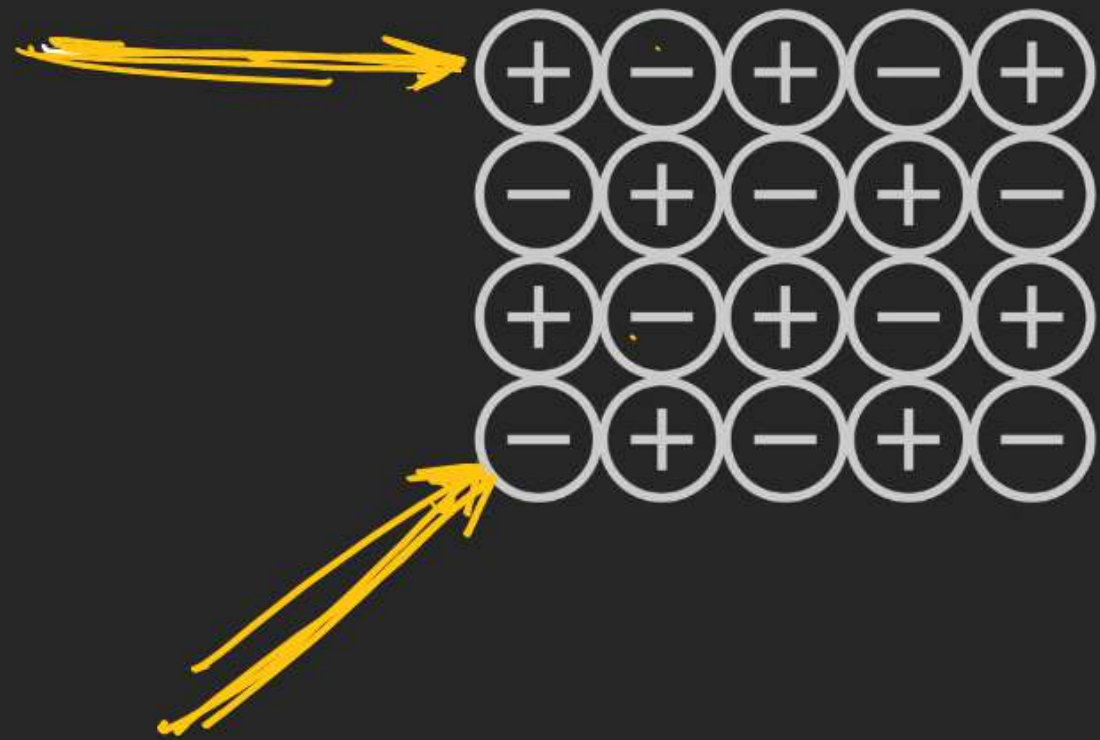


Properties remain same irrespective of
the direction from which it is measured

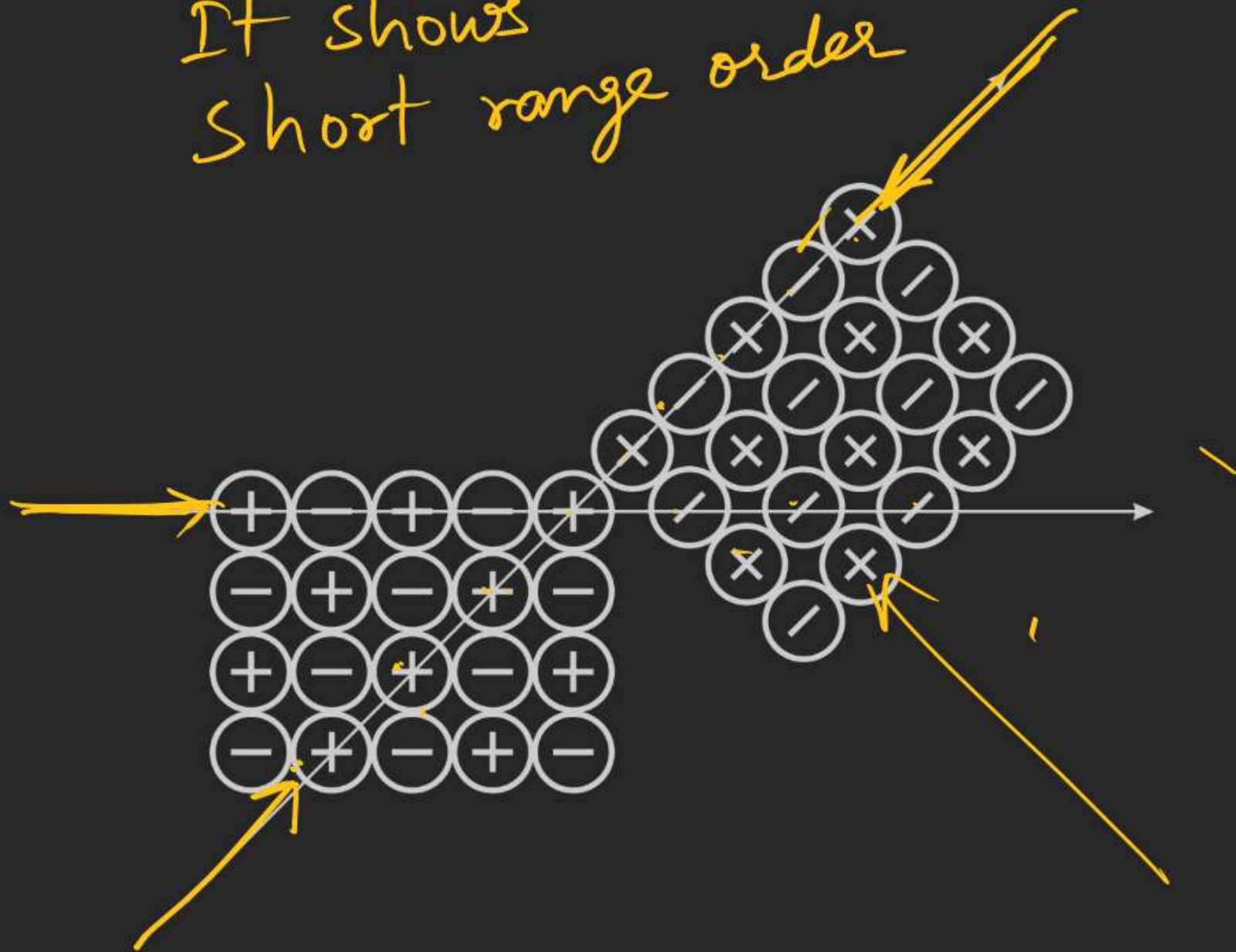
→ Anisotropic

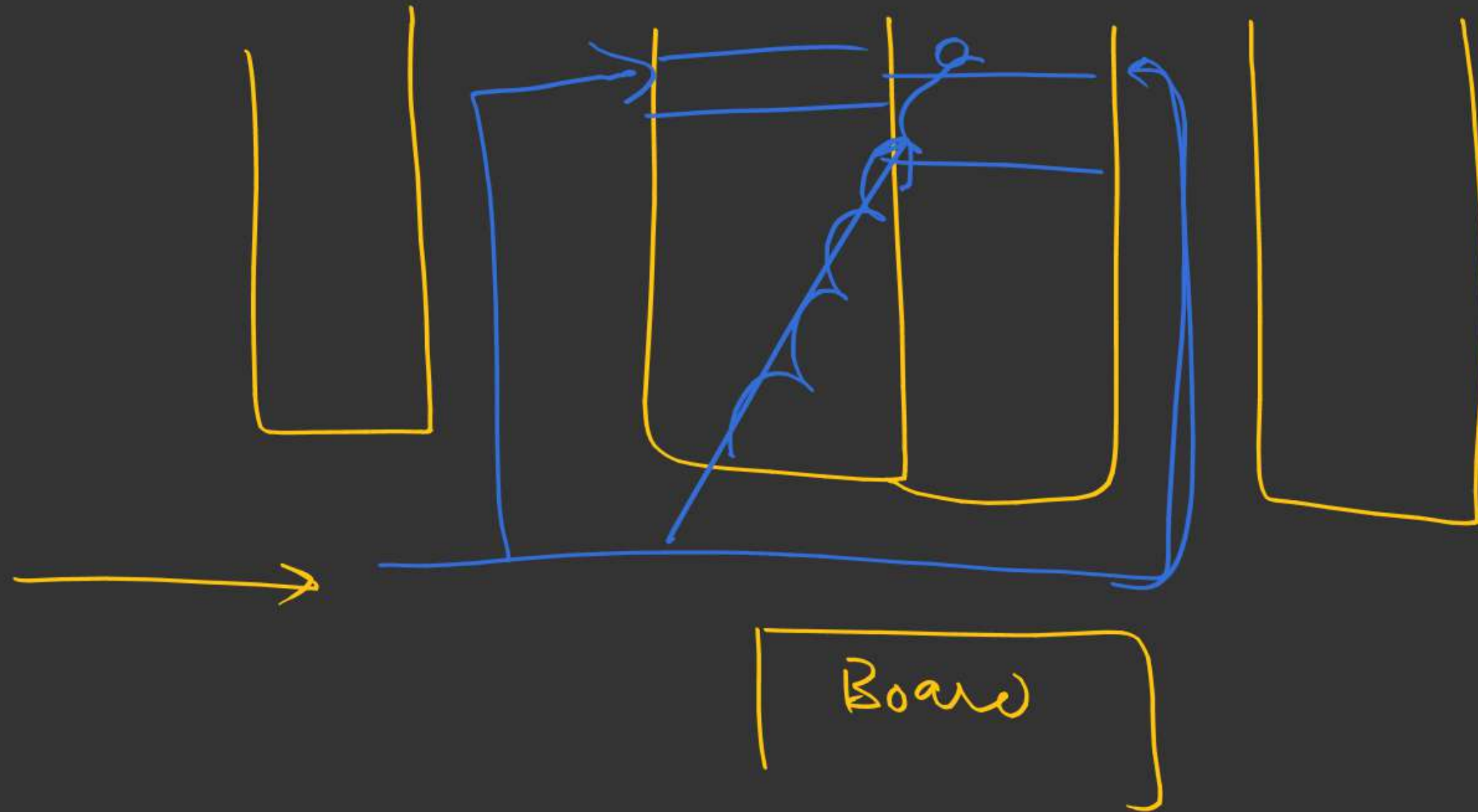


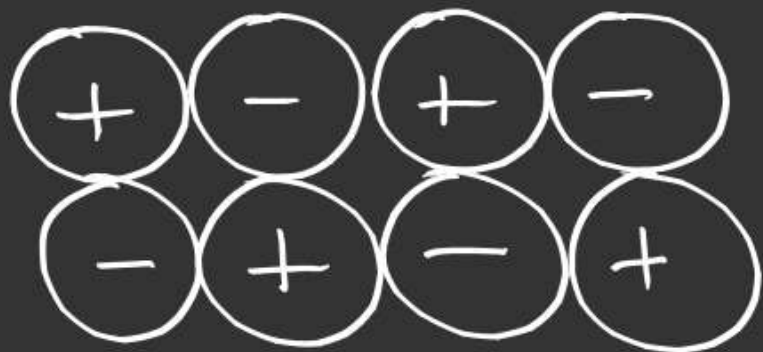
Shows
2. Long range order



It shows
Short range order







Examples of :

Crystalline

Potassium nitrate (KNO_3)

Benzoic acid

Copper, Iron

Naphthalene

NaCl

Diamond

graphite, quartz

(SiO_2)

Amorphous

Teflon

cellophane

Polyvinyl chloride (PVC)

Quartz glass

(SiO_2)