

**I. Tick the correct answers:****1). Which of the following is a physical change?**

1. a) Melting of butter b) rusting of iron
2. c) burning of paper d) changing of wheat to bread

**2) Milk turning sour is a :**

1. a) Physical change b) reversible change
2. c) chemical change d) none of the above

**3)..... and salt are soluble in water.**

a) Sugar b) chalk c) sand d) kerosene

**4) In ice, the water molecules are/can**

a) Stuck together b) very close to each other  
c) move around freely d) move very fast

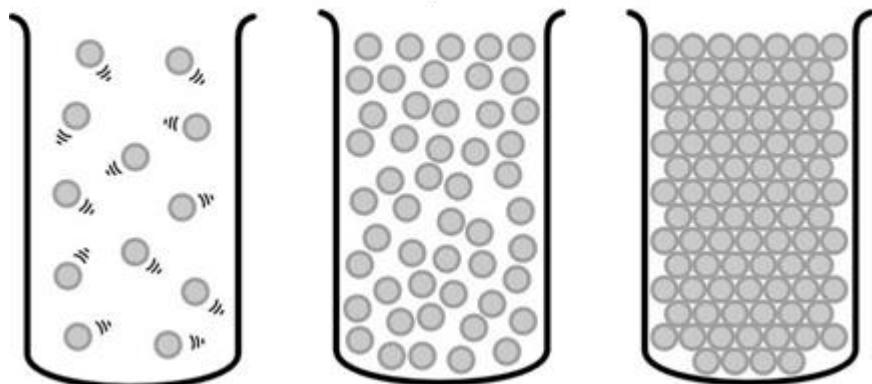
**II. Fill in the blanks**

1. Matter is made up of molecules that are very \_\_\_\_\_ (large/small).
2. In the case of solids, there is \_\_\_\_\_ (no/some) space between molecules
3. Solids and \_\_\_\_\_ (gases/liquids) have fixed volume.

**III. Short Answers Questions:**

Q1. Briefly explain the relationship between atoms and a molecule using water and oxygen molecule as an example.

Q2. Briefly explain compound using  $\text{CO}_2$  and  $\text{NH}_3$  as an example.

**Q3. Identify A, B and C**

Parameter	A	B	C
Force of attraction			
Intermolecular space			
Arrangement of molecules			
Shape			
Volume			
Occupy space			

**Q4. Why physical change is temporary and reversible.**

**A. Explain with suitable example.**

**B. Physical change is opposite of chemical change. Explain with an example.**

**Q5. Why solids have definite shape and they are hard, and rigid?**

**Q6. Why liquid flows and they don't have definite shape?.**

**Q7. Gases don't have fixed space and volume. Explain briefly.**

**Q8. What is difference between Nitrogen and Ammonia? The state of matter for both being gas?**

**Extra Questions:**

**Q1. Is the arrangement of all molecules in all states of matter the same?**

**Q2. Name the state of matter in which molecules are very loosely packed.**

**Q3. What are soluble and insoluble substances in a liquid?**

**Q4. When liquid particles move from one place to another, why?**

**Q5. Why does gas have no regular arrangement of molecules?**

**Q6. Why objects cannot be compressed in solids?**

**Q7. What happens when solid is heated?**

**Q8. What happens on continuous cooling process?**

**Q9. What happens when we boil something?**

**Q10. When sugar is dissolved in water, the volume of water remains the same. Why?**