

**DR. VIRENDRA SWARUP EDUCATION CENTRE SR. WING SHYAM NAGAR**  
**Class VII** **Chemistry Worksheet**

**J. Choose the correct option:**

1. A physical change involves change in
  - a. shape, size
  - b. colour
  - c. all of above
  - d. none
2. Carbon dioxide can be tested by
  - a. lime water
  - b. lime juice
  - c. quick time
  - d. distilled water
3. Rusting result in
  - a. Loss of metal
  - b. gain of Fe
  - c. gain of Pb
  - d. gain of strength
4. Crystallisation is a type of \_\_\_\_\_ change.
  - a. chemical
  - b. biochemical
  - c. physical
  - d. material
5. Water is an extremely stable.
  - a. mixture
  - b. element
  - c. compound
  - d. substance
6. Full form of RO is
  - a. Reserve Osmosis
  - b. Reverse Osmosis
  - c. Repeat Osmosis
  - d. R<sub>1</sub>verse Osme
7. Which equation is correct
  - a.  $AB + CD \rightarrow AD + CD$
  - b.  $AB + CD \rightarrow AC + BD$
  - c.  $AB + CD \rightarrow AD + BC$
  - d.  $AB + CD \rightarrow AD + CB$
8.  $P_4 + -O_2 \rightarrow -P_2O_3$ 
  - a. 3, 2
  - b. 2, 3
  - c. 2, 2
  - d. 3, 3

**II. Identify the kinds of following equations. Also balance them.**

1.  $NaHCO_3 \rightarrow Na_2CO_3 + H_2O + CO_2 \uparrow -Heat$
2.  $Ca(OH)_2 + CO_2 \rightarrow CaCO_3 \downarrow + H_2O$
3.  $AgNO_3 + Cu \rightarrow Cu(NO_3)_2 + Ag$
4.  $CaCO_3 \rightarrow CaO + CO_2$
5.  $Fe + O_2 \rightarrow Fe_2O_3$
6.  $KBr + Cl_2 \rightarrow KCl + Br_2$
7.  $H_2O_2 \rightarrow H_2O + O_2$
8.  $NaOH + HCl \rightarrow NaCl + H_2O$

**III. Complete the chart**

Change	Physical/ Chemical	Reversible/ Irreversible
1. Rolling of a chapatti from dough		
2. Magnetizing an iron needle		
3. Growing of plant		
4. Burning of paper		
5. Melting of wax		

**IV. One day something strange happened with Tinkle. She wanted to surprise her mother by preparing food when her mother was not at home.**

She planned to prepare mixed vegetable using pea, potato, brinjal, carrot.

To her surprise, potato & brinjal pieces in the chopped vegetables turned blackish brown after some time.

1. What do you think happened to the layers of potato & brinjal? \_\_\_\_\_.
2. What type of reaction occurred? Physical or Chemical. Reversible or Irreversible. Slow or fast.
3. Is it reduction or Oxidation?

**V. Write the formulae of –**

1. Potassium Chloride
2. Lead Nitrate (II)
3. Aluminium Sulphate
4. Ammonium Hydroxide
5. Sodium Bicarbonate
6. Copper Oxide (I)