



## LITTERA PUBLIC SCHOOL

**CLASS 6.**

**CHAPTER 6.**

**SCIENCE**

### **CHANGES AROUND US**

Answer the following questions:

1. Classify the following as slow or fast changes:
  - i. Ripening of fruits – Slow Change
  - ii. Cuddling of milk by adding lemon juice – Fast Change
  - iii. Change of season – slow Change
  - iv. Bursting of a cracker – fast Change
  - v. Spinning of a top – fast Change
  - vi. Rusting of a bicycle rim – fast Change
  - vii. Burning of paper – fast Change
  - viii. Weathering of a rock – slow Change
  
2. Give two examples each of:
  - i. Slow and fast changes  
Slow changes – Weathering of rock, change of season  
Fast changes – burning of paper, bursting of crackers.
  - ii. Desirable and undesirable changes  
Desirable change – ripening of fruits, cooking of food.  
Undesirable changes – rotting of fruits, eruption of volcanoes
  - iii. Periodic and non periodic changes  
Periodic change – change of season, phases of moon  
Non periodic change – falling of leaves, eruption of volcanoes
  - iv. Reversible and irreversible changes  
Reversible changes – blowing a balloon, melting of wax  
Irreversible changes – bursting of balloon, burning of candle
  - v. Physical and chemical changes  
Physical changes – melting of ice, breaking of glass tumbler  
Chemical changes – Burning of candle, cooking of food
  
3. State two changes which are desirable as well as undesirable.

Ans. Two changes which are desirable as well as undesirable are-

- i. Burning of wood is desirable when needed for cooking but burning of wood is undesirable when it causes pollution.
- ii. Using a car to cover a long distance is desirable change but emission from car leads to air pollution which is undesirable change.

4. What are periodic and non periodic changes?

Ans. Periodic change – Changes that take place at regular intervals of time are periodic changes. Ex- change of season

Non periodic changes - Changes which take place irregularly and do not repeat are non-periodic changes. Ex- change of weather

5. Classify the following changes as periodic and non periodic changes:

- i. High and low tides in the sea – period change
- ii. Phases of the moon – periodic changes
- iii. Eruption of volcanoes – non periodic changes
- iv. Falling of tree leaves – non periodic changes

6. What are reversible and irreversible changes?

Ans. Reversible changes – the changes which can be reversed are called reversible changes. They are temporary. Example – folding of paper, melting of ice.

Irreversible changes – the changes which cannot be reversed are called irreversible changes. They are permanent. Ex – breaking of glass tumbler, burning of matchstick.

7. Classify the following changes as reversible or irreversible:

- i. Breaking of a glass tumbler- irreversible change
- ii. Cooking of rice- irreversible change
- iii. Melting of wax- reversible change
- iv. Germination of seeds – irreversible change
- v. Ploughing of a field – Reversible change
- vi. Stretching of a rubber band- reversible change

8. What are physical and chemical changes?

Ans. Physical changes – The changes in which no new substance is formed are called physical changes. Most of the physical changes are reversible. Ex- melting of ice, stretching of a rubber band.

Chemical changes – The changes in which new substance is formed are called chemical changes. Most of the chemical changes are irreversible.

Ex – cooking of food, curdling of milk.

9. Classify the following cases as physical or chemical:

- i. Cooking of food – chemical change
- ii. Curdling of milk – chemical change
- iii. Formation of clouds – physical change
- iv. Burning of a candle – chemical change
- v. Drawing of wet hair – physical change
- vi. Ironing of clothes – physical change
- vii. Souring of milk – chemical change
- viii. Rusting of iron – chemical change
- ix. Will being knitted into a sweater – physical change
- x. Coal burning in air – chemical change