

# INTERNATIONAL INDIAN SCHOOL BURAIDAH

## Worksheet for the academic year 2023-24

Class-7<sup>th</sup>

Subject- Science

Date-10/9/2023

### Chapter-6 Physical and Chemical Changes

### Chapter # 10 Respiration In organisms

#### Q-1 Fill in the blanks :

- (a) In \_\_\_\_\_ change no new substance is formed.
- (b) A foul smelling spoiled food is a \_\_\_\_\_ change.
- (c) Properties such as shape, size, color and state of a substance are called \_\_\_\_\_ properties.
- (d) Turning of lime water to milky is a standard test of \_\_\_\_\_ gas.
- (e) A chemical change is also called a \_\_\_\_\_
- (f) Photosynthesis is an example of \_\_\_\_\_ change.
- (g) Burning of any substance is a \_\_\_\_\_ change.
- (h) Conditions for rusting of iron is \_\_\_\_\_ and \_\_\_\_\_
- (i) The chemical name of vinegar is \_\_\_\_\_

#### Q-2 Multiple Choice Questions

1. Galvanisation is a process used to prevent the rusting of which of the following?
  - (a) Iron
  - (b) Zinc
  - (c) Aluminium
  - (d) Copper
  
2. Which of the following statement is incorrect for a chemical reaction?
  - (a) Heat may be given out but never absorbed.
  - (b) Sound may be produced.
  - (c) A colour change may take place.
  - (d) A gas may be evolved
  
3. Which of the following is a physical change?

- (a) Rusting of iron
- (b) Combustion of magnesium ribbon
- (c) Burning of candle
- (d) Melting of wax

4. Which of the following is a chemical change?

- (a) Twinkling of stars
- (b) Cooking of vegetables
- (c) Cutting of fruits
- (d) Boiling of water

**Q-3 Write the answers of the following Question-**

1. Differentiate between physical and chemical change with 2 examples of each.

2. Write down any 4 characteristics of chemical change.

3. Why is it always advised not to play with fireworks?

4. What is the role of the Ozone layer in our atmosphere?

5. Define

- (1) galvanization
- (2) Crystallization process.

**Chapter # 10 Respiration In organisms**

**Q-1 Choose the correct option-**

**1. All organisms are made of small microscopic units which cannot be seen with the naked eyes, called**

- (a) animals
- (b) cells
- (c) tissues
- (d) organ

**2. Organisms get energy through**

- (a) food
- (b) eating
- (c) sleeping
- (d) none of these

**3. Cellular respiration is carried out in the**

- (a) cells
- (b) organs
- (c) tissues
- (d) muscles

**4. The process of breakdown of food in the cell is known as**

- (a) breakdown process                      (b) cellular respiration  
(c) food breakdown                         (d) none of these

**5. An example of aerobes is**

- (a) cat                      (b) dog                      (c) human being                      (d) all of these

**Q-2 Fill in the blanks-**

1. In cockroaches, air enters the body through \_\_\_\_\_
2. During heavy exercise, we get cramps in the legs due to the accumulation of \_\_\_\_\_
3. Normal range of breathing rate per minute in an average adult person at rest is \_\_\_\_\_
4. During exhalation, the ribs move \_\_\_\_\_
5. Breathing is a part of the process of \_\_\_\_\_

**Q-3. True/False**

1. During heavy exercise the breathing rate of a person slows down.
2. Gills are well supplied with blood vessels for exchange of gases.
3. Plants carry out photosynthesis only during the day and respiration only at night.
4. Frogs breathe through their skins as well as their lungs.
5. The fishes have lungs for respiration.
6. The size of the chest cavity increases during inhalation.

**Q-4 Write the answers of the following Questions-**

1. Name an organism that can survive in the absence of air.
2. How do earthworms breathe?
3. What does a breath mean?
4. What is cell?
5. What are all organisms made up of?
6. Name the respiratory organ of birds.
7. What forms the floor of the chest cavity?
8. What are the end products of anaerobic respiration?
9. What is produced during anaerobic respiration in muscles that causes cramps?
10. What is cellular respiration?
11. What is breathing rate?
12. Why smoking should be avoided?

13. What are spiracles?

14. Why we should eat regularly?