



D.A.V. PUBLIC SCHOOL, NEW PANVEL

2025-2026

SUMMER HOLIDAY ASSIGNMENT WORKSHEET

SUB: SCIENCE

STD: X

1. In which of the following groups of organisms, food material is broken down outside the body and absorbed?

- (a) Mushroom, green plants, Amoeba (b) Yeast, mushroom, bread mould
(c) Paramecium, Amoeba, Cuscuta (d) Cuscuta, lice, tapeworm

2. If salivary amylase is lacking in the saliva, which of the following events in the mouth cavity will be affected?

- (a) Proteins breaking down into amino acids (b) Starch breaking down into sugars
(c) Fats breaking down into fatty acids and glycerol (d) Absorption of vitamins

3. The inner lining of stomach is protected by one of the following from hydrochloric acid. Choose the correct one

- (a) Pepsin (b) Mucus (c) Salivary amylase (d) Bile

4. Which part of alimentary canal receives bile from the liver?

- (a) Stomach (b) Small intestine (c) Large intestine (d) Oesophagus

5. In which part of the alimentary canal food is finally digested?

- (a) Stomach (b) Mouth cavity (c) Large intestine (d) Small intestine

6. Write the three steps of photosynthesis.

7. Describe an experiment to prove that chlorophyll is essential for photosynthesis.

8. What is the role of following enzymes in digestion? (a) Trypsin (b) Amylase (c) Pepsin (d) Lipase

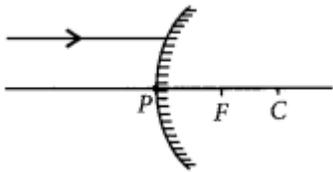
9. Draw labelled diagram for: (a) digestive system in humans (b) nutrition in amoeba (c) opening and closing of stomata

10. State the two laws of reflection of light.

11. An object is placed at a distance of 30 cm in front of a convex mirror of focal length 15 cm. Write four characteristics of the image formed by the mirror.

12. An object is placed at a distance of 12 cm in front of a concave mirror of radius of curvature 30 cm. List four characteristics of the image formed by the mirror.

13. A ray of light is incident on a convex mirror as shown. Redraw the diagram and complete the path of this ray after reflection from the mirror. Mark angle of incidence and angle of reflection on it.



14. The magnification produced by a spherical mirror is -3 . List four informations you obtain from this statement about the mirror/ image.

15. List two properties of the images formed by convex mirrors. Draw a ray diagram in support of your answer.

16. List two possible ways in which a concave mirror can produce a magnified image of an object placed in front of it. State the difference if any between these two images.

17. Name the gas evolved when zinc reacts with dil. HCl.

18. Name and state the law which is kept in mind while we balance a chemical equation.

19. Write the chemical equation for reactions that takes place when lead nitrate and potassium iodide solutions are mixed.

20. Write one equation each for decomposition reactions where energy is supplied in the form of heat, light and electricity.

21. Define combination and displacement reaction and write an equation for each.

22. (a) List any three observations that determine that a chemical reaction has taken place.

(b) Balance the following chemical equations. (i) $\text{Fe} + \text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + \text{H}_2$ (ii) $\text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2 \rightarrow$

23. What happens when magnesium ribbon burns in air?

24. Define double displacement reaction and write an equation for it.