



# SHREE VASISHTHA VIDHYALAYA

## Science Worksheet 2025-26



Name :-

Answekey

Roll No :-

Worksheet No : PA-2

Std.: - V -

Date : -

### Ch-11 Simple Machines | Ch-6 Air & Its Uses | Ch-10 Volume, Weight & Density

#### Q-1) Choose the correct option

- 1) Which of the following is a simple machine?  
a) Fan       b) Lever      c) Car
- 2) A pulley is used to:  
a) Cut wood       b) Lift heavy objects easily      c) Grind grains
- 3) A pair of scissors is an example of:  
a) wheel & axle       b) Lever      c) Inclined plane
- 4) Which gas in the air is used for breathing?  
~~a) Oxygen~~      b) Carbon dioxide      c) Nitrogen
- 5) Which property of air helps a balloon rise up?  
a) Air has smell      b) Air has weight       c) Air exerts pressure
- 6) Volume is measured in:  
a) Kilograms       b) Litres      c) Metres
- 7) The unit of weight is:  
~~a) Newton~~      b) Litre      c) Celsius
- 8) If an object sinks in water, it is:  
a) Heavier than water       b) Lighter than water      c) Has no weight
- 9) Density is the ratio of:  
a) Mass to speed      b) Volume to weight       c) Mass to volume
- 10) Which is the lightest gas that can make balloons float?  
a) Oxygen      b) Nitrogen       c) Helium
- 11) Which of these is NOT a simple machine?  
a) Screwdriver      b) Pulley       c) Washing machine
- 12) Which machine is used in a flagpole to raise the flag?  
a) Lever       b) Pulley      c) Screw
- 13) Which gas is used by plants during photosynthesis?  
a) Oxygen       b) Carbon dioxide      c) Nitrogen
- 14) Air pressure is used in:  
~~a) Fountain pens~~      b) TV       c) Telephone

#### Q-2) Fill in the blanks

- 1) A nail is an example of a Wedge.
- 2) Carbon dioxide in the air is needed by plants for photosynthesis.
- 3) Volume is the amount of space occupied by an object.
- 4) The standard unit of mass is kilogram.
- 5) A ramp is an example of an Inclined plane.
- 6) Volume of a vessel = length × breadth × height
- 7) The heaviness or lightness of an object is called its density.
- 8) A stone sinks in water because its density is more than water.

9) Air is less dense than water.

10) Solids generally have more density than liquids.

### Q-3) Match the following

1) Screw	a) beyond 500 km.
2) Pulley	b) used to cut
3) Wedge	c) bottle cap
4) Lever	d) Seesaw
5) Scissors	e) axe
6) Volume	f) space taken by an object
7) Exosphere	g) helps in lifting load

1- c

2- g

3- e

4- d

5- b

6- f

7- a

### Q-4) Case Study

Ravi filled two bottles with water. One was glass, one was plastic. He dropped both in a bucket of water. The glass bottle sank, but the plastic bottle floated.

1. Why did the glass bottle sink?

The glass bottle was heavy and denser than water

2. Why did the plastic bottle float?

The plastic bottle was lighter and less denser than water

### Q-5) Picture Talk

Look at the picture given below and answer the following questions:

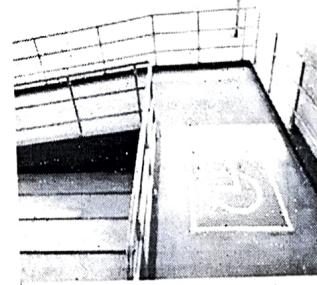
Q:1 Identify two simple machines in the bicycle and explain their use.

- Wheel and axle (helps in movement)
- Lever (break) applying force



Q.1 What is this machine called?

Ramp (inclined plane)



Q.2 What is the use of it in hospital?

A ramp in hospital is used to help patient and other medical equipment easily.

### F. Think and Answer

1. If air did not exert pressure, would it be possible to drink using a straw.

If air did not exert pressure, drinking with a straw would be impossible.