

**BASIC WORKSHEET**  
**KEY- 2**

Grade- VII

**PHYSICS**

1. Silver
2. The Ray of light that hits the surface
3. Rough surface objects

4.	Luminous	Non Luminous
	Sun	Moon
	Fire Flies	Metals
	Glow Worm	Stones
	Star	Trees.
		Bushes

5. Virtual image

6.

- Always incident ray (i), Reflected ray (r) and normal (N) should lie on same plane
- The angle of incident ray (i) and reflected ray (r) should always be equal.
- Laws of reflection will be done in every case
- Only when light incident on rough surface then, the 2 law of reflection doesn't follow

i.e

$$\angle_i \neq \angle_r$$

- We may not get exact size of an image

7. Dentist use concave mirror because they produce enlarged erect and virtual images

It used as shaving mirror

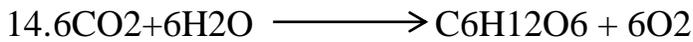
- Head mirror
- Headlights
- Ophthalmoscope

8. As they provide highly magnified or highly diminished smaller images when the object is placed at certain distance.
  - By dentist, in torch light in automobile headlights rear side mirror of vehicles
9. Shadow
10.
  - Shadow formed only when light rays are obstructed
  - In transparent object cannot form a shadow
  - In opaque and translucent shadows will be formed in a darker or lighter shade
11. Shapes of objects
12. Pinhole camera
13. Reflected ray
14. Firefly belongs to luminous objects
15. 29970464 4.54m/s
16. Blue because mostly portion of earth consists of water
17. The red light is scattered the least by air molecules so red light is able to travel the longest distance through fog rain it has the longest wavelength.
18. Scattering

## BIOLOGY

1. Vitamins
2. Keratin
3. Food chain
4. Bisexual flower
5. Transpiration
6. Muscles
7. Amoeba
8. Tissues
9. Venation
10. Blubber
11. Vitamins and minerals
12. The organic component of soil formed by the decomposition of leaves and other plant material by soil microorganisms.

13. Holozoic nutrition



15. The process of photosynthesis does not occur at the night. During this time the oxygen is taken and carbon dioxide is released

16. Mountain goats have hooves can grip the steep Rocky mountain tops

17.

- Dry fruits-pulp is dried, hard pulp
- Fresh fruits-they have fresh pulp, soft pulp

18. Iron deficiency

19. Good nutrition is important for healthy life to maintain your height and weight and to reduce the diseases and improves your immunity.

20. Immunity means it protects the body to fight against disease to improve immunity we need to take more citrus, fruits, garlic, ginger, almonds etc. If no immunity diseases attacks our body.

**Q. List the difference between clayey soil and sandy soil**

<b>Clayey soil</b>	<b>sandy soil</b>
Particles are very small	particles are large size
Water holding capacity is more	water holding capacity less
It is fertile	it is non-fertile

**Q. Describe the different methods of asexual reproduction give examples**

**Asexual reproduction**

- Binary fission eg: amoeba
- Fragmentation eg: spirogyra
- Regeneration eg: planaria
- Budding eg: hydra

**Q. Can you give common characteristics of living things**

- They have characteristics
- Respiration, movement, excretion, growth nutrition, reproduction etc.

## **V.Bit**

### **Reptiles**

- All reptiles produce eggs
- Have scales
- Cold blooded
- Vertebrates

### **Birds**

- Have feathers
- Have wings
- Beaks are present
- Lay eggs
- Skeleton

### **Mammals**

- Endothermic vertebrates
- Hair /fur on the body
- Have mammary glands
- Four chambered heart

### **Fish**

- Cold blooded
- Water habitat
- Gills to breath
- Fins for movement

### **Amphibians**

- 3 chambered heart
- Lays eggs without shells
- Gills lungs skin is respiratory organs
- Cold blooded