



THANK YOU TEACHER SERIES™



TEACHER HANDBOOK

for

Textbook of Science : 1,2



Science – I

Answers

Chapter-1 (Things : Living and non-living)

Train Your Brain

- (a) Car, table, chair, desk and pen (b) sun, moon
(c) man, woman, girl, boy and cow (d) pencil, eraser
- (a) many (b) living
(c) groups (d) sun
(e) life
- (a) Non-living things – things which do not have life e.g. stone, wall etc.
(b) Living things – things which have life e.g. goat, tiger etc.
(c) Wall, stone, sand
(d) Deer, birds, cow
(e)

Natural things

- These things occur in natural and not made by man.
- It is not in man's control.
- Example : the sun, the moon etc.

Non-made things

- These things are made by man.
- It is in man's control.
- Example : Pencil, eraser etc.

- (a) (✗) (b) (✓) (c) (✗)
- (a) (iv) (b) (iii)
- (a) crow (b) dog (c) cat
(d) stone (e) the sun
- (a) (iii) (b) (i) (c) (iv)
(d) (ii)

Chapter-2 (Classification of Plants)

Train Your Brain

- (a) Creepers – Plants with weak and thin stems.
(b) Climbers – The plants which need support to grow straight and erect are called climbers.
(c) Mint, coriander
(d) Water plants – Plants which grow in water.

2. (a) small and weak (b) support
(c) hard and woody (d) creepers
(e) shrubs
3. (a) Plants are the living things which make food for themselves. Plants need soil, water, space, air and light to grow.
(b) Huge and tall plants are called Trees. E.g. Neem, Banyan.
(c) Plants make their own food by the process of photosynthesis.
(d) Plants which are small and weak are called herbs. Examples— Grass, Mint
(e) Short plants with woody stem are called shrubs. Examples – Rose, Jasmine.
4. (a) (✓) (b) (✗) (c) (✓)
(d) (✓) (e) (✗)
5. (a) (iv) (b) (iii) (c) (iii)
6. (a) Rose (b) Pumpkin (c) Pea
(d) Ashoka tree (e) Banyan
7. (a) (vi) (b) (iii) (c) (ii)
(d) (i) (e) (iv) (f) (v)

Chapter-3 (Parts of a plant)

Train Your Brain

1. (a) Cereals are the grass-like plants which produce grains that can be eaten.
(b) Grains are edible seeds of some plants.
(c) (i) Wheat, Rice
(ii) Potato, Sugarcane
(iii) Carrot, Radish
2. (a) above (b) under (c) fruit
(d) fruits (e) seeds
3. (a) Root, stem, leaf, flower, fruit, seed and grains
(b) Roots of a plant grow under the soil. Function of roots : to take water from the soil.
(c) Stem helps to carry water and food to different parts of the plant.
(d) Seed lies in the soil and take water from the soil. Root is grown inside the soil and stem above the soil. Then leaves are grown on the branch. In this way a seed grows into a new plant.

4. (a) (iii) (b) (iii) (c) (i)
 (d) (i) (e) (ii)
5. (a) stem (b) leaves (c) root
 (d) seed (e) flower (f) seed
 (g) fruit (h) papaya
6. (a) (iii) (b) (iv) (c) (i)
 (d) (ii)

Chapter-4 (Plants are vital) Train Your Brain

1. (a) Neem, mint (b) Rice, wheat and corn
 (c) Mustard, groundnut, coconut (d) Pea, potato, tomato
 (d) Cotton, jute
2. (a) fruits (b) vegetables (c) grains
 (d) shelter
3. (a) Plants are very useful. They provide us food, wood, shelter, medicine and cloth.
 (b) Plants are used as food as fruits, vegetable, food grains, spices, edible oils and other eatables.
 (c) We use spices in our food because they add taste and flavour to our food.
 (d) We get edible oils from plants. Edible oils are extracted from oil seeds.
4. (a) (✓) (b) (✗) (c) (✓)
 (d) (✓) (e) (✗)
5. (a) (iii) (b) (ii) (c) (iii)
 (d) (iii)
6. (a) (v) (b) (iv) (c) (i)
 (d) (iii) (e) (vi) (f) (ii)
7. (a) cotton plant (b) Sugarcane (c) Mustard
 (d) Wood (e) Tea (f) Cocoa

Chapter-5 (Classification of animals)

Train Your Brain

- (a) Amphibians
(b) The birds fly with the help of their wings.
(c) Insects fly with the help of their wings.
- (a) (i) Cow (ii) Sheep
(b) (i) Lion (ii) Tiger
(c) (i) Butterfly (ii) Grasshopper
- (a) Wild animals Domestic animals
(i) They live in the jungles. (i) They live in or near our homes.
(ii) They are very dangerous. (ii) They are not so-dangerous.
(iii) Example : Tiger, Lion etc. (iii) Examples : Cow, Goat etc.
(b) Water living animals are called aquatic animals. Examples : Fish, Whale etc.
(c) Animals that live both on land and in water are called amphibians. Examples : frog, crab etc.
(d) (i) They have wings to fly.
(ii) They have light body, covered with feathers.
(e) (i) They have six legs.
(ii) They have wings.
- (a) (✗) (b) (✓) (c) (✗)
(d) (✗) (e) (✗) (f) (✗)
(g) (✓)
- (a) (iii) (b) (iii) (c) (i)
- (a) Kiwi (b) Aquatic animal
(c) Domestic animal
- (a) (iii) (b) (iv) (c) (i)
(d) (ii)

Chapter-6 (Animals : Food and Shelter)

Train Your Brain

- (a) Cow, deer, and goat (b) Lizard, spider and frog
(c) Dog, tiger and lions (d) Fruit and nut
(e) We keep sheep in a pen (f) A lion lives in a den.

2. (a) nest (b) shed
(c) hole (d) deer
(e) lizard
3. (a) Grass eating animals are called herbivores.
(b) Carnivores Omnivores
(i) Flesh eating animals are called Carnivores (i) Both plant and flesh eating animal are called Omnivores.
(ii) Examples : Dog, tiger etc (ii) Example : Bear, cat etc.
(c) Some animals live in their nests, den, web, hives etc in natural surrounding.
4. (a) (✓) (b) (✗) (c) (✗)
(d) (✓) (e) (✓)
5. (a) (iv) (b) (iii) (c) (ii)
(d) (iii)
6. (a) kennel (b) stable (c) holes
(d) herbivores
7. (a) (iv) (b) (iii) (c) (i)
(d) (ii) (e) (iv)

Chapter-7 (Human body)

Train Your Brain

1. (a) We see with our eyes.
(b) We hear with our ears.
(c) We smell with our nose.
(d) We taste with our tongue
(e) Skin
2. (a) two (b) one (c) skin
(d) bittergourd (e) sugar
3. (a) The eyes, ears, nose, tongue and skin, all are called sense organs.
(b) Eyes helps us to see everything around us.
(c) The tongue can identify the testes of sweet, salty, bitter and sour things.
4. (a) (✓) (b) (✗) (c) (✗)
(d) (✓) (e) (✓)

- | | | | |
|----|------------|-----------|-----------|
| 5. | (a) (iii) | (b) (iii) | (c) (iii) |
| | (d) (iii) | (e) (iii) | (f) (iii) |
| 6. | (a) (ii) | (b) (v) | (c) (iv) |
| | (d) (iii) | (e) (i) | |
| 7. | (a) skin | (b) eyes | (c) nose |
| | (d) tongue | (e) ear | |

Chapter-8 (Our basic needs)

Train Your Brain

- (a) We need air to breathe

(b) We need water to cook, to clean, to bath etc.

(c) We need food to grow and be healthy.

(d) We need clothes to wear.

(e) We need a house to live in.
- (a) fresh (b) vegetables (c) food
- (a) We need air, water, food, clothes and house to stay alive.

(b) We should not take stale food because it may fall us sick.

(c) Toffees, chocolates, cold drinks and chips are known as Junk food.

(d) We can fall sick if we take stale food.
- | | | |
|---------|---------|---------|
| (a) (✗) | (b) (✗) | (c) (✗) |
| (d) (✓) | (e) (✓) | |
- | | | |
|----------|-----------|----------|
| (a) (iv) | (b) (iii) | (c) (iv) |
|----------|-----------|----------|
- | | | |
|------------|---------------|-------------|
| (a) Milk | (b) Junk food | (c) Clothes |
| (d) Plants | (e) House | |
| (d) (iii) | (e) (i) | |

Chapter-9 (Developing good habits)

Train Your Brain

- | | | |
|-----------------------|----------------|--------------|
| (a) Good habits | (b) Wash hands | (c) Properly |
| (d) In to the dustbin | | |
- | | | |
|-----------|------------|-----------|
| (a) hands | (b) follow | (c) close |
| (d) waste | (e) mouth | |
- (a) (i) We should chew our food properly.

- (ii) We should eat slowly with the mouth closed.
- (b) (i) Do not spit on the road.
(ii) Do not throw waste paper on the road.
- (c) (i) Keep your schools neat and clean.
(ii) Keep your class neat and clean.
(iii) Throw all waste paper into the dustbin.
- (d) (i) Keep your house clean.
(ii) Keep things at proper place
- (e) Speaking the truth because it will make place in other's heart.
4. (a) (✓) (b) (✗) (c) (✓)
(d) (✗) (e) (✓) (f) (✗)
5. (a) (iii) (b) (ii) (c) (i)
6. (a) food (b) food (c) good habits
(d) waste paper
7. (a) (iii) (b) (iv) (c) (v)
(d) (i) (e) (ii)

Chapter-10 (Health and Hygiene)

Train Your Brain

1. (a) Keeping fit and healthy.
(b) Healthy food
(c) To maintain good health
2. (a) eight (b) rest (c) mice
(d) fit
3. (a) Cleanliness is habit of staying clean.
(b) Do it yourself
(c) Your body won't be fit and healthy.
4. (a) (✗) (b) (✗) (c) (✗)
(d) (✓) (e) (✗)
5. (a) (i) (b) (ii) (c) (ii)
(d) (ii) (e) (ii)
6. (a) Rest (b) 8 (c) Early
(d) Teeth (e) Twice

7. (a) (iii) (b) (i) (c) (iv)
(d) (iv) (e) (ii)

Chapter-11 (Safety saves)

Train Your Brain

1. (a) Parents (b) Left (c) Zebra crossing
2. (a) Safety (b) Play (c) Zebra
(d) Learn (e) Road
3. (a) To keep ourselves and other safe.
(b) (i) Walk on the footpath.
(ii) Always keep to the left.
(c) (i) Always play in a playground.
(ii) Do not play on terrace.
(d) (i) Do not play with switches.
(ii) Do not play with matchsticks.
(e) (i) Always walk in a queue.
(ii) Do not climb on desks and chairs.
4. (a) (✓) (b) (✗) (c) (✗)
(d) (✗) (e) (✗)
5. (a) (i) (b) (ii) (c) (iii)
(d) (iii) (e) (iii)
6. (a) Zebra crossing (b) Teacher (c) Matchbox
(d) Playground (e) Queue
7. (a) (iii) (b) (iv) (c) (ii)
(d) (i)
8. (a) G (b) B (c) B
(d) G

Chapter-12 (Air)

Train Your Brain

1. (a) To breathe (b) Breeze (c) Yes
2. (a) air (b) wind (c) dirty
3. (a) (i) Air has space.
(ii) Air carries weight.

- (b) Breathing, burning, drying etc.
- (c) Take two similar balloons. Air is filled in one balloons. Weight both the balloons. The air filled balloon will more in weight. This proves air has weight.
- (d) Smoke of car, buses, factories, burning leaves and waste material make air dirty.

- | | | |
|--------------|----------|-----------|
| 4. (a) (✓) | (b) (✓) | (c) (✗) |
| 5. (a) (iii) | (b) (ii) | (c) (iii) |
| 6. (a) Air | (b) Air | (c) Wind |
| (d) Smoke | | |
| 7. (a) (iii) | (b) (iv) | (c) (v) |
| (d) (ii) | (e) (i) | |

Chapter-13 (Importance of Water) Train Your Brain

1. (a) No
(b) We need water to live.
(c) Animals need water far drinking land for bathing.
(d) Plants need water to live and grow.
2. (a) (Waste) (b) (Clothes) (c) (Thirsty)
(d) Putting out fire
3. (a) Water can be stored in many ways. E.g. in dams, tanks, wells etc.
(b) River is a large area of water surrounded by land.
(c) No. Because it is not pure.
4. (a) (✓) (b) (✗) (c) (✓)
(d) (✗)
5. (a) (iv) (b) (iii) (c) (iv)
6. (a) Water (b) Food (c) Clothes
(d) Dam
7. (a) (iii) (b) (i) (c) (ii)

Chapter-14 (Seasons) Train Your Brain

1. (a) Seasons
(b) We wear cotton clothes, have cold drinks etc.

Science – 2

Answers

Chapter-1 (Types of plants)

Train Your Brain

- (a) Shrubs (b) Pumpkin plant
(c) Papaya, date (d) pea plant, money plant
- (a) branches (b) climber
(c) shrubs (d) creeper
(e) cactus
- (a) Trees have hard woody stems.
(b) Herbs are called seasonal plants because they live for three-four month.
(c) Shrubs are small bushy plants.
(d) The plants that need support to stand and grow are called climbers.
(e) The plants that have very weak and soft stems are called creepers.
- (a) (✓) (b) (✓) (c) (✗)
(d) (✗) (e) (✓)
- (a) (ii) (b) (iii) (c) (iii)
(d) (i) (e) (i)
- (a) Rose (b) Sunflower (c) In water
(d) Cactus
- (a) (iii) (b) (v) (c) (i)
(d) (vi) (e) (ii) (f) (iv)

Chapter-2 (Use of Plants)

- (a) Oxygen (b) Spinach (c) Turmeric
- (a) medicinal (b) Rose, hibiscus and jasmine
(c) cotton (d) gum (e) bamboo
- (a) Plants give us many things therefore plants are useful.
(b) Fruits name : Mango, orange, banana etc.
Vegetable name : Brinjal, tomato etc.
(c) Tulsi, neem, mint, etc are medicinal plants.
- (a) (✓) (b) (✗) (c) (✓)
(d) (✓) (e) (✓)
- (a) (iii) (b) (iii)
- (a) Keeper, acacia (b) Cabbage, onion (c) Rose, Jasmine

- (d) Sunflower, Mustard (e) Tulsi, mint
 (f) Cotton plant, Jute plant

7. (a) (iii) (b) (iv) (c) (i)
 (d) (v) (e) (ii)

Chapter-3 (Domestic Animals)

1. (a) Cow (b) Silkworm (c) Dog, cat
 (d) Camel, donkey
2. (a) camel (b) honey (c) fish
 (c) fish (d) donkey (e) silkworm
 (f) sheep (g) cow
3. (a) Tame animals are called domestic animal e.g. cat, dog etc.
 (b) Some domestic animals are called pet animals because we love them.
 (c) We get food and fibers from animals.
 (d) oxen helps the farmers in the fields by working in the fields.
4. (a) (✗) (b) (✗) (c) (✓)
 (d) (✓)
5. (a) (i) (b) (iii) (c) (ii)
 (d) (i)
6. (a) camel (b) cow (c) sheep
7. (a) (iii) (b) (i) (c) (iv)
 (d) (v) (e) (vi)

Chapter-4 (Wild Animals)

1. (a) Pandas (b) Jackal, fox etc are scavengers.
 (c) burrows (d) elephant, zebra
2. (a) Fox (b) herbivorous (c) animals
 (d) vulture
3. (a) Three types

Name of animal	Habitat
Elephant	under tree
Moneky	on tree
Rats	burrows
- (b) Two features
 (i) boat shaped body
 (ii) breathe through gills
- (c) Animals that live both on land and in water are called amphibians.
 (d) for protection.

4. (a) (✗) (b) (✗) (c) (✓)
 (d) (✗)
5. (a) (i) (b) (iii) (c) (iii)
 (d) (i)
6. (a) Cow (b) Monkey (c) Jackal
 (d) Rat

Chapter-5 (Our body : A wonderful Machine)

1. (a) 206 (b) To give support and shape
 (c) By doing exercises and playing games.
2. (a) bones, muscles (b) shape, support (c) shoulders
3. (a) The position of our body when we stand sit or walk is known as posture.
 (b) (i) It helps the bones to grow well.
 (ii) It makes our backbone strong.
 (iii) It makes our body work properly.
 (c) To protect vital organs such as the heart and the brain.=
4. (a) (✓) (b) (✗) (c) (✗)
5. (a) (iii) (b) (iv) (c) (iv)
6. (a) 206 (b) Bones (c) Joint
7. (a) (iii) (b) (i) (c) (iv)
 (d) (ii)

Chapter-6 (Food For Health)

1. (a) Sugar is energy giving food.
 (b) Hands should be washed.
 (c) 8 to 10 glasses.
2. (a) energy-giving (b) protective (c) lunch
 (d) cover
3. (a) (i) It helps to grow
 (ii) It keeps us healthy and strong
 (iii) It gives us energy
 (b) Sugar, rice and potato.
 (c) Fruits, vegetables and nuts
 (d) (i) Do not eat stale food.
 (ii) Avoid over eating.
 (e) It is important to eat fruits and vegetables because they protect us from diseases.

4. (a) (✗) (b) (✓) (c) (✗)
 (d) (✗)
5. (a) (i) (b) (iii) (c) (iv)
6. (a) Rice (b) Body building food (c) Fruits
 (d) Vegetables
7. (a) (iv) (b) (iii) (c) (iii)
 (d) (i)

Chapter-7 (Safety Habits)

1. (a) To our elders (b) Left side
 (c) When the traffic light is red.
2. (a) a footpath (b) zebra (c) traffic
 (d) ear
3. (a) While crossing the road. First look to our right, then to our left and then again to our right.
 (b) We should not leave things on the floor because we until stumble and fall.
 (c) We should get into a bus when our turn comes.
 (d) First-aid is the help given to the injured, before the doctor arrives.
4. (a) (✓) (b) (✗) (c) (✗)
 (d) (✓)
5. (a) (iv) (b) (iii)
6. (a) Safety (b) Edged toys (c) Sun
7. (a) (iii) (b) (i) (c) (ii)

Chapter-8 (Air Around Us)

1. (a) Air (b) The smoke (c) Wind
2. (a) Smoke (b) Germs (c) Dust
 (d) Weight (e) Plants
3. (a) Properties of air :
 (i) Air has weight
 (ii) It occupies space
 (iii) It can move things.

- (b) Air contains dust, water vapours, germs and smoke.
 (c) (i) Storms damage houses, crops and animals.
 (ii) Storms up root trees and blow things that come in its way.
 (d) Wind moves windmill and energies is produced.
4. (a) (✓) (b) (✓) (c) (✗)
 (d) (✓) (e) (✗)
5. (a) (iii) (b) (ii) (c) (iii)
6. (a) air (b) smoke (c) wind
7. (a) (vi) (b) (i) (c) (ii)
 (d) (vii) (e) (iv) (f) (iii)

Chapter-9 (Sources of Water)

1. (a) The main sources of water are rain, streams, snow, lakes, ponds, rivers, wells, hand pumps and taps.
 (b) Vapour
 (c) Filtered and boiled water is safe to drink.
2. (a) Rain (b) Salty (c) boil, filter
 (d) germs (e) well
 (f) water treatment
3. (a) The sea water is not uses for drinking because it is salty.
 (b) All water is not safe for drinking because many impurities and germs are present in it.
 (c) Gourd water is the water that exists underground.
 (d) In cities, water is made pure in water treatment plants before it reaches our homes. Water is treated with chlorine to kill germs and then it is supplied to the people.
 (e) During rainy season, tap water becomes unsafe to drink therefore we boil and filter water.
4. (a) (✓) (b) (✗) (c) (✓)
 (d) (✗) (e) (✗)
5. (a) (iii) (b) (ii) (c) (i)
 (d) (i)
6. (a) well (b) salty (c) three-fourth
 (d) rain

7. (a) (iv) (b) (iii) (c) (ii)
(d) (v) (e) (i)

Chapter-10 (Forms of Water)

1. (a) Into the soil (b) Water vapour (c) Liquid state
(d) Temperature melts the ice into water.
2. (a) three (b) solid (c) vapours
(d) steam
3. (a) Three forms of water :
(i) Water in the form of gas – When water is heated, it starts boiling and changes into water vapours.
(ii) Water in the form of liquid – The water in our house is in this form.
(iii) Water in the form of solid – Ice cube is in this form.
(b) Melting – The process of conversion of solid ice into water is called melting.
Freezing – The process of conversion of water into ice is called freezing.
Condensation – The process of conversion of water vapour into water is called condensation.
(c) Water is always on the move in a never ending cycle, it is called water cycle.
4. (a) (✗) (b) (✗) (c) (✓)
(d) (✓) (e) (✓)
5. (a) (iv) (b) (i) (c) (ii)
(d) (iii)
6. (a) Melting (b) Condensation (c) Freezing
(d) Rainwater
7. (a) (ii) (b) (i) (c) (iv)
(d) (iii)

Chapter-11 (Our Earth)

1. (a) The glob (b) Round
(c) the gaseous layer that surrounds the earth is called atmosphere.

3. (a) A house protects in from heat, cold, wind and rain. It also protects us from thieves and wild animals.
 (b) Multi-storeyed pucca houses are called sky scrapers.
 (c) The house that can be moved are called temporary houses e.g. hut, houseboat etc.
4. (a) (✗) (b) (✗) (c) (✓)
5. (a) (i) (b) (d) (c) (iii)
 (d) (i)
6. (a) tent (b) sky crapper (c) Rain
 (d) Grass
7. (a) (iii) (b) (v) (c) (i)
 (d) (ii)

Chapter-15 (Clothes)

1. (a) Clothes make us look smart.
 (b) We wear cotton clothes in summer.
 (c) We wear raincoat and gumboots when it rain.
2. (a) rainy (b) heat, cold, rain, dust
 (c) natural (d) synthetic
3. (a) We wear woollen clothes to keep our body warm as they do not allow cold air to pass through them.
 (b) Fibres that are obtained from natural resources are called Natural fibres. E.g. Cotton, Wool etc.
 (c) Fibres that are made by man are called synthetic fibres. E.g. Nylon.
 (d) A particular type of dress is called a costume.
 (e) Special clothes are known as uniform.
4. (a) (✗) (b) (✗) (c) (✓)
 (d) (✗) (e) (✓)
5. (a) (iii) (b) (iv) (c) (i)
 (d) (ii)
6. (a) summer season (b) winter season (c) rainy season
 (d) special occasion
7. (a) (iii) (b) (i) (c) (ii)