

1

New

Vision of **SCIENCE**

Teacher's Manual



CHAPTER-1

Get, set and go...

Ball Frog Rocket Baby

Let's Find

I am a living thing. My ball is a non-living thing.

Life Skills

Living things

cat
dog
squirrel
girl

Non Living things

pork
lamppost
car
road

Exercise

- A. 1. (a) Plant 2. (b) Umbrella 3. (c) Bat 4. (c) River 5. (c) Both a and b
- B. 1. living 2. can feel 3. natural 4. man
- C. 1. F 2. T 3. F 4. F
- D. 1. Things which have life in them are called living things.
2. Three living things: Cat, Dog, Bat
Three non-living things: Bat, Ball, Ice
3. Living things differ from non-living things on the following aspects:
(i) Living things respire
(ii) Living things reproduce
(iii) Living things grow
4. Man-made things are made by people whereas natural things occur in nature without any human interaction and interference.

HOTS

A log rolling down from a hill is a non-living thing as a log of wood does not respire, reproduce or grow.

Value Based Questions

1st pic - no.

2nd pic - yes

Activity

- (i) FROG (Living thing)
(ii) ROCK (Non-living thing)

National Cyber Olympiad Question

C. there will always be living things of their own kind.

CHAPTER-2

Get, set and go...

B, S, B, S

Let's find

Stem-cutting

Exercise

- A. 1. c. herb 2. c. Coriander 3. b. creeper 4. Root
B. 1. trees 2. Shrubs 3. weak 4. leaf C. 1. T 2. T 3. F 4. F
D. 1. Big plants are called trees. They are tall & strong. They have hard trunks.
Small plants are called shrubs. They have thin and woody stem.
2. Climbers – Money plant & grapevine
Creepers – Pumpkin & watermelon
3. Roots, stem, leaf, flower & fruit.
4. Proper sunlight, air, water and soil.

HOTS

The butterfly sits on the flower as its gets nectar from the flower.

Value Based Question

The 1st pic

National Cyber Olympiad Question

(b) Shrub

CHAPTER-3

Get, set and go...

Fruits–Pineapple, Grapes, Apples, Banana, Mango, Papaya
Vegetables– Carrot, Radish, Pumpkin, Brinjal, Tomato,
Gourd, Potatoes

Let's Find

Banana (Via parthenocarpy)

Life Skills

Fruits having one seed – Mango, Litchi, Grapes
Fruits having few seeds – Apple, strawberry, Pineapple
Fruits having many seeds – Orange, watermelon, guavas

Exercise

- A. 1. (a) stem 2. (c) Both a & b 3. (c) spice
B. 1. plants 2. flower 3. seeds 4. beans
C. 1. Roots, stems, leaves & flowers are consumed as vegetables.

Life Skills

Monkey – Fruits

Cow – Grass

Dog – Meat

Hen – Seeds

Cat – Meat

Horse – Oats

Let's find

1. lion 2. spider 3. deer 4. dog

Exercise

- A. 1. (a) grass 2. (b) nuts 3. (c) Rabbit 4. (a) Pen
B. 1. plant-eaters 2. Tiger 3. den 4. stable
C. 1. Animals which eat plants are called-plant eaters.
2. Lion and Tiger,
3. Elephants, Monkeys, lions tigers etc. live in natural homes.
4. Hen and Dog.

HOTS

Lizard

Value Based Question

Do yourself.

National Cyber Olympiad Question

(a) & (c)

CHAPTER-6

Get, set and go...

Let's Find

EAR, NOSE, EYES, MOUTH

Life Skills

1. NOSE 2. TONGUE 3. EYES 4. SKIN 5. EARS.

Exercise

- A. 1. (c) legs 2. (c) hands 3. (c) hear 4. (b) feel
B. 1. many 2. eyes 3. tongue 4. sense organs
C. 1. F 2. F 3. T 4. T
D. 1. –(c) 2. –(d) 3. –(a) 4. –(b)
E. 1. Write, eat, hold, draw & clap.
2. Walk, run, jump, kick & skip.
3. Eyes, ears, nose, tongue & skin are called sense organs. Those organs help us to sense the world around us.
4. A child grows to become an adult.

HOTS

Richa can use another sense organ, skin, to tell objects and feel, whether they are big or small.

Value Based Question

Do yourself.

National Cyber Olympiad Question.

1. (a) Eyes, 2. (b) Ears.

CHAPTER-7

Get, set and go...

Do yourself.

Lets' Finds

1. Meat (not a plant derivation)
2. Pulses (not on animal product)
3. Water (It has no nutritional value)
4. Eggs (poultry).

Exercise

- A. 1. (b) fruits, 2. (a) milk, 3. (a) dinner, 4. (c) both a & b.
B. 1. cereal, 2. hen, 3. lunch, 4. hands.
C. 1. F, 2. T, 3. T, 4. T.
D. 1. We need food to grow & stay healthy. Food makes us strong.
Food gives us energy to work & play.
2. Plants & animals
3. Three
4. (a) We should eat fresh fruits daily.
(b) We should not over eat.

HOTS

Animal food.

Value Based Question

Do yourself

Activity

Chapati – P Milk – A Honey – A Rice – P

National Cyber Olympiad Question

- (d) Both a & b

CHAPTER-8

Get, set and go...

Do yourself.

Let's Find

Do yourself.

Life Skills

Do yourself.

Exercise

- A. 1. (c) both a & b.
2. (b) Handkerchief
3. (a) twice
4. (c) 7 to 8
- B. 1. Do yourself.
2. Do yourself.
3. Wash hands.
4. Do yourself.

HOTS

The body will get dirty.

Value Based Questions

Do yourself.

Activity

TOWEL SHAMPOO TOOTHBRUSH SOAP

National Cyber Olympiad Question

Sid.

CHAPTER-9

Get, set and go...

Bathroom, Kitchen, Dining room, Bedroom

Exercise

- A. 1. (c) Study room 2. (c) In the bedroom 3. (b) woollen 4. (b) Sheep
- B. 1. a bath 2. cotton 3. cool 4. cotton
- C. 1. Walls, windows, terrace, door & floor.
2. Living room is a room in a house used to spend time with friends & relatives.
3. Gumboots & raincoats
4. cotton – cotton plants
wool – sheep

HOTS

Gumboots & Raincoat as they are water proof.

Value Based Questions.

Do yourself

National Cyber Olympiad Questions.

1. (b) 2. (b)

CHAPTER-10

Get, set and go...

Life Skills

The one larger in volume is less dense & hence flies higher.

Exercise

- A. 1. (c) wind 2. (b) weight 3. (a) sailboat 4. (c) both a & b
B. 1. cannot 2. space 3. dry 4. kite
C. 1. -b 2. -c 3. -d 4. -a
D. 1. T 2. F 3. F 4. T
E. 1. Moving air is wind.
2. Take a balloon & blow air into it. Slowly it becomes bigger.
This show that air fills the space inside the balloon.
3. (a) Air moves a sail boat.
(b) Air is needed for burning.
4. Yes.

HOTS

Yes Air Air fills space.

Value Based Question

1st, 3rd & 4th pic.

National Cyber Olympiad Questions

1. (b) air 2. (c) air

CHAPTER-11

Get, set and go...

1. Lemon juice 2. Tea leaves 3. Sugar

Let's Find

Bathing, Drinking, Brushing, Washing.

Life Skills

1st, 2nd, & 4th sentence.

Exercise

- A. 1. (b) Rain 2. (c) both a & b 3. (c) bucket
B. 1. Rain 2. Sea, River, Lake 3. Drinking, Bathing, Cooking 4.
Bottles, bucketed, tanks & pots
C. 1. -(b) 2. -(c) 3. -(a)

HOTS

Yes.

Value Based Question

2nd pic

National Cyber Olympiad Questions

1. (d) both b & c 2. (d) all of these

Chapter-12

Get, set & go...

1st pic – summer

2nd pic – winter

Let's Find

Kashmir

Exercise

- A. 1. (a) hot 2. (b) rains 3. (b) five 4. (c) Spring
- B. 1. Weather 2. cold 3. autumn 4. hot
- C. 1. F, 2. T, 3. T, 4. F.
- D. 1. Weather is the condition of air at a particular time or place.
2. Summer/Spring – loose, cotton
Winter/autumn – woolen, long sleeved clothes
Monsoon – gumboots & raincoat.
3. Five.
4. In autumn it is not very cold nor very hot. Tree shed their leaves.
In spring the weather is pleasant & new leaves grow on trees.

HOTS

Because cotton helps the sweat to evaporate faster.

Value Based Question

Hot days

Cold days

Rainy days

Shorts

Jacket

Raincoat

Cap

Gloves

gumboots

Shirt

Frock

Activity

1st pic – summer

2nd pic – winter

3rd pic – summer

4th pic – winter

National Cyber Olympiad Question

- (a) Hot day Gumboots

CHAPTER-13

Let's Find

1. Night 2. No 3. No 4. The moon looks bigger.

Life Skills

1. Sun

2. Moon

3. Star

Exercise

- A. 1. (a) sun 2. (a) east 3. (a) moon
B. 1. F 2. F 3. F 4. T
C. 1. Light & warmth
2. The sun rises in the east & sets in the west.
3. The moon.
4. Because they are very far away.

HOTS

They do not go anywhere. The sun shines so bright that the moon and stars cannot be seen.

Value Based Questions

Sun	Moon
Water plants	every week
Reading	dinner
Newspaper	sleep
School	

National Cyber Olympiad Questions

1. (a) west 2. (d) both b & c

Model Paper - I

- A. 1. b. Pencil, c. Bat
2. a. Plant
3. c. herb
4. c. Both a and b
B. 1. natural 2. trees 3. leaves 4. leafy vegetable
C. 1. T 2. F 3. T 4. F
D. 1. Living: dog, cat, man; non-living : tree, sun, air.
2. To be able to make food for animals and reproduce.
3. Every part.
4. Mustard, Soya-bean and sunflower.
E. Bag, Rose, Broccoli, Sugar-cane

Model Paper - II

- A. 1. b. Giraffe 2. c. Rabbit
3. c. hear 4. both a and b
B. 1. two 2. stable 3. many 4. hens
C. 1. F 2. T 3. T 4. F
D. 1. - c
2. - d
3. - a
4. - b

