

Vision of SCIENCE SCIENCE

Teacher's Manual



Class 2

CHAPTER-1

Get, set and go...

It is a rose plant.

Let's find

Papaya trees are originally from America, coconut originated from the Indian subcontinent.

Exercise

- A. 1. (b) Trees 2. (c) Herbs 3. (b) Pea plant 4. (b) Root 5. (b) Fruit
- B. 1. trunk 2. Trees 3. vegetable 4. Creepers 5. Leaf
- C. 1. T 2. F 3. F 4. T 5. T
- D. 1. Big & tall plants are called trees. They have hard and strong stem called trunk. The trunk is divided into many branches. Trees live for many years.
 - Shrubs are smaller than trees. They have thin and woody stem. They bear many branches that grow close to the ground. Shrubs live for many years.
 - 2. Creepers have weak stems. They do not climb up and creep along the ground. Eg. pumpkin and watermelon plants.
 - 3. Shrubs—Rose, Jasmine Herbs—Rice, Mint
 - 4. Climbers are weak plants. They cannot stand straight. They need a support of other object to grow. Eg. pea plant and money plant.
 - 5. Leaf, fruit, flower, stem, and Roots.

HOTS

Because pea develop in a pod.

Value Based Question

Do vourself.

Activity

Do vourself.

National cyber olympiad Questions

(b) coconut & papaya.

CHAPTER-2

Get, set, and go...

All picture except the bucket and glass pictures.

Let's find

Tyre Eraser/Rubber Rubber Gloves

Life Skills

To increase the amount of oxygen and reduce the amount of carbon from the atmosphere.

Exercise

- A. 1. (b) stem 2. (c) Cereals 3. (c) oil 4. (b) bamboo plant
- B. 1. fruit 2. flower 3. bark 4. Paper
- C. 1. F2. T3. F4. T
- D. 1. Cereals and pulses are called food grains. Eg. wheat & kidney beans.
 - 2. Roots, stems, leaves, flowers & seeds constitute as vegetables.
 - 3. We get fibres from plants like cotton & jute.
 - 4. Paper Bamboo plant

Gum-Acacia tree

Rubber-Rubber tree

HOTS

Paper from bamboo plant, cloth of the bag from jute plant, pencil froteak/shisham trees.

National Cyber Olympiad Questions

1. (a) Acacia tree

2. (d) All of these.

CHAPTER 3

Get, Set & go

HEN, COW, SHEEP, HORSE.

Exercise

- A. 1. (c) shed, 2. (c) both a & b, 3. (a) eggs, 4. (c) candles.
- B. 1. farms, 2. pen, 3. honey, 4. silk.
- C. 1. T, 2. F, 3. T, 4. F.
- D. 1. Cow, Goat, 3. Pig, Cow, 4. Snakes, crocodiles.
- E. 1. Domestic animals left in forms are called form animals.

 Domestic animals kept in the back yard of our houses or at homes are called pet animals.
 - 2. Cheeze, Butter, Curd.
 - 3. We get leather from dead buffalo, camel, snake & crocodile.
 - 4. Animals that carry us as things from us are called beasts of burden.

HOTS

We set bread from wheat (from plants) & milk from milding animals.

Value Based Questions

There are different lifestyles based on different type of cersumption of food. Many communities use animals for this meat & other body parts animals are specifically bred for their consumption. As long are consumption of animal for its meat & other body parts is sustainable, if causes no harm to the environment.

Activity

1. Milk, Wool, Eggs, Honey

National Cyber Olympiad Questions

1. (d) Zebra.

2. (d) all of these.

CHAPTER 4

Get, Let go

Lion, Elephant, Goat, Deer, Horse.

Let's find

ELEPHANT

GIRAFFE

DEER

ZEBRA

Life Skills

For shelter & place of rest

Exercise

- A. 1. (b) cave, 2. (b) birds, 3. (c) in water, 4. (a) plants.
- B. 1. lion, 2. burrow, 3. trees, 4. animals.
- C. 1. F, 2. T, 3. F. 4. F.
- D. 1. Dog, 2. Zebra, 3. Snake, 4. Deer.
- E. 1. Animals that live in forests are called wild are mals.
 - $2.\ Honkeys, sloths.$
 - 3. Animals which can live both on land & in water are called amphibians.
 - 4. Lions, Tigers, wolves, snakes, etc.

HOTS

 $Giraffe's \ long \ neck \ helps \ it \ to \ eat \ the \ learns \ of \ tell \ trees.$

${\bf National\,Cyber\,Olympiad\,Questions}$

(a) Tiger Skin &

(d) Lion skin.

CHAPTERS 5

Get, Set & go.

Lips, ear, hair.

Let's find

Cycling, running, swimming, playing.

Exercise

- A. 1. (a) bones, 2. (b) 206, 3. (c) brain, 4. (d) boat a & b.
- B. 1. bones, 2. Ribs, 3. Joint, 4. Straight.
- C. 1. T, 2. F, 3. F, 4. T.
- D. 1. Muscles, 2. Skeleton, 3. Joint, 4. Posture.
- E. 1. All the bones join together to form for work called skeleton. The skeltiones shape & support to our body.

The skeleton gives shape & support to our body. It protict our soft inner organs.

Muscles help the bones to move.

Our bones & muscles help as to walk, run play & do many other activities.

- 3. A place where two bones join together is called a joint.
- 4. Exercising regularly & eating health food makes our bones & muscles strong.
- 5. The position in which we hold our body when we got, stand or move is called posture.

The correct posture gives proper shape to out body. It keeps all the part of our body to work properly.

HOTS

Exercising regularly & eating heathy food modes our bones & muscles strong.

Value Based Question

No, Since we need to to bend our joints to move thing around.

National Cyber Olympiad Questions

1. (b) skeleton,

2. (b) 300 bones.

CHAPTER 6

Get, Set & go

 $\begin{array}{cccc} \operatorname{Butter}-\operatorname{A} & \operatorname{Apple}-\operatorname{A} & \operatorname{Eggs}-\operatorname{A} \\ \operatorname{Bread}-\operatorname{P} & \operatorname{Rice}-\operatorname{P} & \operatorname{Milk}-\operatorname{A} \end{array}$

Let's Find

Street vendors don't follow regulation to keep food clean & healthy.

Exercise

- A. 1. (a) Milk, 2. (c) Sugar, 3. 9c) Protective, 4. (a) breakfast, 5. (c) both a & b.
- B. 1. body, building, 2. diseases, 3. hands.
- C. 1. -C, 2. -e, 3. -d, 4. -b, 5. -a.

- D. 1. Food items like milk, fish, eggs, etc. help us to grow. They also build our bones & muscles. They are called body building food.
 - 2. Energy giving food gives us energy to work & play.
 - 3. Discases.
 - 4. We eat food at different times in a day.

The different meals are breakfast (morning), lunch (afternoon), & diner (night).

HOTS

Both eat the some things exopt non-vegetarian eat meat & eggs as well.

National Cyber Olympiad Questions

1. (d) Honey,

2. (c) Staple food.

CHAPTER 7

Get, Set & go

 $1 \text{st pic} - X \quad 2 \text{nd pic} - X$

Life Skills

1st, 2nd & 3rd pic.

Exercise

- A. 1. (c) both a & b, 2. (c) footpath, 3. (b) in the park.
- B. 1. F, 2. T, 3. T, 4. T.
- C. 1. Because beauvais are sharp & may out us.
 - 2. Look to both sides of the road to make sure their si no traffic.
 - 3. Do not jump or play on the desks. Do not run up & down the stairs.
 - 4. Do not play on the roof.

Do not push or pull whole playing.

HOTS

Because they may burn themselves by accident.

${\bf National\ Cyber\ Olympiad\ Question}$

(a) His concentration can break & accident can happen.

CHAPTER 8

Let Set & go.

Bedroom, Bathroom, Kitchen.

Let's Find

Summer uniforms are made of cotton while water unforms are made from wool.

Exercise

- A. 1. (b) Kuchcha houses
 - 2. (a) Tent
 - 3. (a) Flat
 - 4. (b) Woollen clothes
 - 5. (c) Monsoon.
- B. 1.-b, 2.-d, 3.-a, 4.-c.
- C. 1. permanent, 2. sloping, 3. wheels, 4. cotton.
- D. 1. Some people live in the some house for many years. These types of houses are called permanent houses.
 Some people keep morning from one place to another. They make houses that can be moved form place to place. These types of houses are called temporary houses.
 - 2. Tent, house boat, caronan, sheet house.
 - 3. Flat roof—in the planins Sloping roofs—on the mountains.
 - 4. Cotton clothes.
 - 5. Wooden clothes.

HOTS

Snow will accountae.

Nations Cyber Olympiad Questions

(d) Woollen fibre.

CHAPTER 9

Let's find

to stop the spread of pathogens.

Exercise

- A. 1. (b) Smoke, 2. (a) breeze, 3. (c) Plants, 4. (b) Wind.
- B. 1. Air, 2. Dirty, 3. storm, 4. Clean.
- C. 1. F, 2. T, 3. T, 4. T.
- D. 1. -b, 2. -d, 3. -a, 4. -c.
- E. 1. Air is a mixture of gases. It also conting water wapers.
 - 2. The smoke, dust & germs make the air dirty. Such air is not good for our health.
 - 3. Breeze is when wind blows softly. When wind blows strongly, it is called storm.
 - 4. Wind moves a sailboat.

Wind makes a parachute fly.

Wind helps clothes to dry faster.

HOTS

Because a for cannot produce such strong wind.

Value Based Questions

2and & 4th.

National Cyber Olympiad Questions

Correct answers 2, 3, & 4.

Cheer is no option counting 2, 3, & 4.

CHAPTER 10

Get, Set & go

DRINKING, BATHING, COLOURING, WASHING

Let's find

Water pacifier filter out continuities and make water pure.

Life spills

close top while bashing.

Exopt of showering, fill a bucket & use of for bafthury.

Exercise

- A. 1. (b) River, 2. (c) Well, 3. (c) None of these, 4. (b) Three fourth.
- B. 1. ground, 2. boil, 3. germs, 4. sick.
- C. 1. Rain pond, lake, river, well, tube-well, hand pump.
 - 2. We draw ground water by digging wells, tube wells & hand pumps.
 - 3. Water from lakes & rivers come to our homes through pipeline & taps.
 - 4. Water that ones form lakes & river contains germs therefore, we should cool water before drinking. Boiling water can kill the germs.
 - 5. Never leave the tops open when not is use.

Do not waste water while bathing or washing.

Get labing taps required.

HOTS

Get water from a well.

Value Based Question

4rd & 4th.

National Cyber Olympiad Questions

D, a, b, c, & d.

CHAPTER 11

Get Set & go.

2and pic.

Let's find

Because of high percentage of water vapors in the atmosphere.

Life Skills

It is condensation.

This happens when water vapour neets a cold surface.

Exercise

- A. 1. (a) Ice, 2. (c) water vapour, 3. (b) cloud.
- B. 1. Three, 2. ice, 3. freezes, 4. cooled.
- C. 1. T, 2. T. 3. F, 4. T.
- D. 1. water changes to water vapors.
 - 2. Water vapour condenses and the food does not burn.
 - 3. It changes to ice.
- E. 1. Water, ice, & water vapour.
 - 2. Clouds form when water vapour, high in the sky, cool down & turn into tiny water droplets & accumulate.
 - 3. River water seeks into ponds, lakes, rivers & sees again.
 - 4. Page 62 water cycle.

HOTS

So that of does not melt.

Value Based Questions

Hot steam can burn the face.

National Cyber Olympiad Questions

1. (b) B & D,

2. (c) Sunlight & dry wind.

CHAPTER 12

Get, set & go

Rhino, Elephant, cow, lion

Let's find

The position of the sum in the sky and the length of shadows helped people to know the time.

Exercise

- A. 1. (a) east, 2. (b) light, 3. (c) shadow, 4. (c) bath a & b.
- B. 1. sum, 2. earth, 3. dark, 4. shortest.
- C. 1. T, 2. F, 3. T, 4. T.
- D. 1. The sun gives us heat & light. It makes our day warm & bright.
 - 2. Moon-light, bulbs, tube lights, lamps, & torches.
 - 3. Sometimes you see a dark patch on the ground following you where you walk in the sun. This is your shadow.

4. When light cannot pass through on object, of forms a shadow. A shadow is always formed on the opposite side of the light.

HOTS

Black.

Value Based Question

a. yes, b. yes, c. No (Heatstroke)

National Cyber Olympiad Questions

(c) Shadows.

CHAPTER 13

Let's find

Chalk & State.

Let's find

Iron Bar, Car, Train

Life Skills

1. Diamond, 2. Chalk, 3. coal, 4. Talcum powder, 5. Ruby, 6. Emerald.

Exercise

- A. 1. (a) Hardrock, 2. (b) white, 3. (c) chalk, 4. (b) Quartz.
- C. 1. T, 2. T, 3. F, 4. T, 5. T.
- D. 1. Gromte, sandstone
 - 2. chalk, slate
 - 3. Talc, silica
 - 4. Emerald, Raby.
- E. 1. Rocks are hard substances which make up the earth. Rocks are made up one or more minerals.
 - 2. Rocks are found every where like on mountains, on hells, is valleys at the bottom of rivers & sees.
 - 3. Rocks are made up of one or minerals are of different colours, shapes & sizes.
 - $4. \ Talc is used for making talcum powders.\\$

HOTS

No, as chalk is a very soft rock and cannot be used like lead to write using friction. Chalk cannot write on paper.

Value Based Questions

It is not right because de facing is wrong.

National Cyber Olympiad Question

(D) X-Panice, Y-Chalk.

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