

5

New

Vision of **SCIENCE**

Teacher's Manual



CLASS 5
CHAPTER 1

Get, Set & go

All pic – m, expect Mango pic.

Let's find

After bearing leaves, the young plant makes its own food is does not depend on the cotyledon for nenerishment.

Let's find

Sicene coconut trees and lot of water to grow, they can be seen growing at coastal ears.

Exercise

- A. 1. (b), 2. (a), 3. (c), 3. (a), 5. (c).
B. 1. seed coat, 2. Monocot, 3. Coconut, Stem, 5. winter.
C. 1. F, 2. T, 3. T, 4. F, 5. T.
D. 1. pg 8, 2. pg 9, 3. (a) wind – Dandelion, Maple,
(b) Water – Coconuts, Lotus,
(c) Explosion – Pea, Poppy.
4. pg 12, 5. pg 13.

HOTS

1. They may become diseased or may not growly properly due leek of proper miverals or in rectrem eates, die.
2. There would be competition for resource as like minesls and water and hence the plants will not be able to grow properly.
3. No, because mangoes reproduce through seeds.

VBQ

Manure. It would responsible to use the food refuse as manure.

Activity

3. pg 8.

NCOQ

1. (b) 2. (b).

Chapter 2

Let's find

To conserve water as it lines in arid regions.

Let's find

During winter months.

Exercise

- A. 1. (a), 2. (c), 3. (c), 4. (c), 5. (b).

- B. 1. F, 2. T, 3. T, 4. T, 5. F.
C. 1. –(b), 2. –(d), 3. –(e), 4. –(c), 5. –(a).
D. 1. pg, 18, 2. pg 20, 3. pg 20, 4. pg 22, 5. pg 24.

HOTS

1. All groups have lungs.
2. Yes.
If animals like the polar bear, yak, and seals don't have protective coverings like fur & blubber, they will perish due to the harsh cold.
3. No. Humans have lungs, which cannot extract dissolved oxygen (in water).

VBQ

Dodo was a bird indigenous to Mauritius. Which was hunted to extinction in the 17th century. Competing with pigs and macaques introduced by the Dutch, also contributed to the bird's extinctions.

NCOQ

1. (a), 2. (d).

Activity

3. Sheep
Scales, keep their body water proof
Insect, help to breathe
wings, birds insects.
Fins helps to swim.

CHAPTER 3

Get, Set & go

SKELETAL, MUSCULAR, CIRCULATORY, DIGESTIVE.

Let's find

By taking an X-ray.

Let's find

Blood will stop circulating hence the body does not oxygen, water, food, enzymes, etc. The body shuts down and the person dies.

Life Skills

- By exercising
Following a balanced diet
Eat foods that are rich in protein and calcium.

Exercise

- A. 1. (b), 2. (c), 3. (b), 4. (a), 5. (c).
 B. 1. organ, 2. Ribs, 3. Zob, 4. Pinto, 5. Voluntary.
 C. 1. –(e), 2. –(e), 3. –(a), 4. –(b), 5. –(d).
 D. 1. T, 2. T, 3. F, 4. F, 5. T.
 E. 1. pg 29, 2. pg 29, 3. pg 30, 4. pg 40 5. pg 32.

HOTS

1. We would be able to stand or for that matter move at all.
2. Our limbs will be as flexible as our necks make our heads.
 Our heads will be retained and will be able to move as our
 lambs as they were before the exchange.

NCOQ

1. (b), 2. (c).

CHAPTER 4

Get, Set & go

Eyes, Ears, Nose, Tongue, Skin

Let's find

The cerebellum.

Let's find

The iris because it is a coloured involuntary muscle.

Life skills

Neurologist	Ophthalmologist	Ear, Nose,
Throat Specialist	Dentist	Dermatologist

Exercise

- A. 1. (a), 2. (c), 3. (b), 4. (b), 5. (b).
 B. 1. T, 2. F, 3. T, 4. F, 5. T.
 C. 1. –(d), 2. –(e), 3. –(b), 4. –(c), 5. –(a).
 D. 1. pg 36, 2. 37, 3. pg 38, 4. pg 38. 5. pg 40.

HOTS

1. We won't be able to do any work based on memory.
2. Left.
3. Natural causes such as changes in body temperature can
 cause itching at night. Skin diseases could cause such an
 itches well.

Activity

3. pg 38 NCOQ
 (a).

CHAPTER 5

Get, Set & go

1. Veena
2. 25 days
3. Mayank. He maybe healthy all over the years or was very eager to attend school energy day.

Let's find

Because of would cause malnourishment.

Let's find

Because chicken poxes a communicable disease.

Let's find

Adding a dash of lemon, tamarind or tomato does not destroy the nutrient green leafy negefebbs.

Exercise

- A. 1. (c), 2. (c), 3. (a), 4. (a), 5. (b).
 B. 1. Five, 2. calcium, 3. Roughage, 4. Dog, 5. iron.
 C. 1. T, 2. T, 3. F, 4. F, 5. T.
 D. 1. pg. 44, 2. pg 46, 3. pg 47, 4. pg 48, 5. pg 49.

HOTS

1. He may have eaten unclean food, containing pathogens. Street food is not properly cocked and is left open, suitable to being infected.
2. Because of rise of pollution.
3. Fats are stored in the body as energy resources.

UBQ

Bottle water is corlifiaibly clean. Drinking water form any where may make as sick of was contaminated with deadly pathogens.

NCOQ

1. Options are , 2. (b).

CHAPTER 6

Let's Find

Due to their spacesuits

Let's find

Filtration

Exercise

- A. 1. (c), 2. (b), 3. (c), 4. (a), 5. (b).
 B. 1. fine, 2. 78%, 3. weight, 4. filter, 5. Boiling.
 C. 1. -(b), 2. -(a), 3. -(e), 4. -(c), 5. -(d).

- D. 1. pg 53, 2. pg 56, 3. pg 57, 4. pg 57, 5. pg 59.

HOTS

1. Because plants replenish the atmospheric oxygen.
2. Water with mineral is not undesirable.
3. Boiling it for 15-20 minutes.

UBQ

If pept out for long, the boiling will become redundant.

NCOQ

1. (b), 2. (c).

CHAPTER 7

Let's Find

Plants won't be able to make its food. plants will die out.

Animals which depend on plants for for food will die out.

Humans also will perish.

Let's find

It we more continuously the shadow moves as well.

Exercise

- A. 1. (a), 2. (c), 3. (b), 4. (c), 5. (c).
B. 1. Sun, 2. opaque, 3. crescent, 4. Namgation, 5. lunar.
C. 1. T, 2. F, 3. T, 4. T, 5. F.
D. 1. -(c), 2. -(a), 3. -(a), 4. -(b), 5. -(d).
E. 1. pg 63, 2. pg 65, 3. pg 63, 4. pg 66, 5. pg 67, 6. pg 68.

HOTS

2. Ans 3 of E.
3. Moon had no atmosphere.

VBQ

1. As there is not atmosphere on the moon, there would be no pressure changes which would love allowed a person to danube juice through a straw on moon.

NCOQ

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

CHAPTER 8

Get, Set & go

EARTHQUAKE, FLOOD, CYCLONE, DROUGHT

Let's Find

Tides are caused by the Earth's relation, wind, & gravitational fore of the moon. Tusnami is caused by the movement of tectonic plate.

Let's find

Lack of water reserves and bad ground water relevation with source rainfall.

Exercise

- A. 1. (a), 2. (b), 3. (b), 4. (c), 5. (b).
B. 1. core, 2. crust, 3. tsunamis, 4. tidal, 5. drought.
C. 1. pg 71, 2. pg 72, 3. pg 72, 4. pg 73, 5. 74.

HOTS

1. Covers are structurally more ground & a table can offer protection. Both methods help to auerd any injury from falling debris.
2. Yes, there is no distnation of cesitomnated and sterile olycts after a flood cyclone.

UBQ

Constant any NGO helping the earth quake victims

NCOQ

1. (c),
2. (c).

CHAPTER 9**Let's find**

Vehicular pollution and refuse from factories.

Exercise

- A. 1. (c), 2. (c), 3. (c), 4. (c), 5. (b).
B. 1. F, 2. F, 3. T, 4. F, 5. T.
C. 1. pg 78, 2. pg 78, 3. pg 78, 4. Air pollution causes – smoke from vehicles
Smoke from factories
Water Pollution causes – Sewage from hospitals and homes.
Wastes from industries and prms.
5. pg 50.

HOTS

1. Melting it and recycling the plastic.
2. On burning petrol many harmful substances are released in the air.
3. Because plastic has a very bag and bad impact on nature's health.

UBQ

1. Burning them will reate manure. Burring then will add to air pollution.
2. Plantage tree is belt or because afforestation is good for the environment.

NCOQ

1. (d),
2. (a).

CHAPTER 10

Let's find

Because it is very sticky in nature and does not constain much organic matter.

Exercise

- A. 1. (c), 2. (b), 3. (a), 4. (c), 5. (b).
 B. 1. T, 2. F, 3. T, 4. F, 5. T.
 C. 1. Top soil, 2. Weathering, 3. Deforestation, 5. Affores fation.
 D. 1. pg 84, 2. pg 85, 3. pg 85, 4. pg 86, 5. pg 86.

HOTS

1. Overgrazing by herbivores may lead to soil erosion.
2. All the terraces cut a maruntain look like stains are.
3. To leque organic matter to form detritus.

UBQ

Sustainable tree cutting, i.e., plating trees as we cut them down, should be practiced. If father is only cutting trees & not planting them, then hi si wrong is doing so.

NCOQ

1. (b),
2. (b).

CHAPTER 11

Get, set & go

Marble, Sandstone, Slate.

Let's find

Punice has many holes and tropes are in it.

Lets find

Stop cars that run on fossil fuels
 Start using gas and electing eloping.

Exercise

- A. 1. (a), 2. (b), 3. (c), 4. (c), 5. (a).
 B. 1. mineral, 2. three, 3. punic, 4. gneiss, 5. coal.
 C. 1. T, 2. T, 3. F, 4. F, 5. F.

D. 1. pg 91, 2. pg 93, 3. marble slate, gneiss, 4. pg 96, 5. pg 97

HOTS

1. No because pumice breaks easily & is very porous.
2. casing arndmills and sobs pads to falfill our energy needs.
3. Because sandstone shine and sparkle and come in different colours.

NCOQ

1. (c),
2. (b).

CHAPTER 12

Book pic X

Let's find

By changing the direction of the force applied.

Let's find

A see-saw has pivot, effot & load.

Exercise

- A. 1. (c), 2. (a), 3. (c), 4. (b), 5. (c).
B. 1. fulcrum, 2. Second, 3. pulley, 4. Cars, 5. Wedge.
C. 1. -(c), 2. -(d), 3. -(e). 4. -(b), 5. -(a).
D. 1. pg 101, 2. pg 102, 3. pg 103, 4. pg 104, 5. pg 105.

HOTS

1. Making a lever with a stick and a smaller stone, making if the pivot and the big rock, the coal.
2. Attach a rod to the whole to make a simple machine called wheel and axle.

UBQ

Screw jack wrench, wheel wedges, pry bar.

NCOQ

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