

Answers

Theme 5: Why Do We Need Systems?

Lesson-9: Our Life Supports

Main Coursebook

Re-KAP

Kinaesthetic:

Accept all relevant responses

Auditory:

1. There is 78% nitrogen present in the atmosphere.
2. Troposphere is the lowest layer of Earth.

Pictorial



Interacting better:

boat ship

Accept all relevant responses

Understanding better: (Page 66)

1. No
2. Yes

Understanding better: (Page 68)

1. False
2. True

Understanding better: (Page 70)

1. Yes
2. No

Learning better:

- A. 1. a 2. a 3. a

4. b 5. b

- B. 1. True 2. False 3. True

4. False 5. False

- C. 1. Troposphere, stratosphere, mesosphere, thermosphere and exosphere.

2. Nitrogen

3. In sedimentation, we allow the impurities to settle down at the bottom of container.

- D. 1. i. Air has weight

Air has some weight, although this weight is comparatively less than that of liquids and solids.

- ii. Air takes up space

Air occupies space. An inflated balloon appears bigger in size in comparison to a deflated balloon.

- iii. Air exerts pressure

Since air has weight, it therefore, exerts pressure. The air pressure at the mountains is comparatively less than the air pressure at sea level.

- iv. Air exerts pressure in all directions.

2. Insoluble impurities are the impurities that do not dissolve in water and can be seen. These impurities can be removed by the methods of sedimentation, and decantation and filtration. Soluble impurities are impurities that dissolve in water and cannot be seen. These impurities can be removed by methods of evaporation and distillation.

Creating better:

Accept all relevant responses

Thinking better:

Hot air is lighter than cold air because when air is heated, it spreads out and takes up more space, making it less dense. Since lighter things rise, hot air moves up and cold air, which is heavier, takes its place.

Choosing better:

2. She should immediately wash the stain on the dress with water and dry it in the air.

Students' Worksheets

Worksheet 1

- A. 1. different 2. oxygen
3. outermost 4. troposphere
5. ultraviolet (UV)
- B. 1. False 2. True 3. True
4. False 5. False
- C. 1. → e 2. → c 3. → a
4. → b 5. → d

Worksheet 2

- A. 1. pressure 2. inflated 3. 78 per cent
4. oxygen 5. Humidity
- B. 1. EXOSPHERE 2. MESOSPHERE
3. TROPOSPHERE 4. STRATOSPHERE
5. THERMOSPHERE

- C. 1. True 2. False 3. False
4. False 5. True

Worksheet 3

- A. 1. In filtration, we separate impurities from water by using filter paper. In this, the insoluble impurities collect on the filter paper while the water collects in beaker or container kept below the filter, as filtrate.
2. In decantation, we first allow the impurities to settle down at the bottom of container. Then, without disturbing the sediment that is present at the bottom of the beaker, we drain the clean water on the top into another beaker.
3. In sedimentation, we allow the impurities to settle down at the bottom of container.
4. Soluble impurities are impurities that dissolve in water and cannot be seen.
5. Insoluble impurities are the impurities that do not dissolve in water and can be seen.
- B. water; clean; rainwater; impure; purified
- C. 1. No 2. Yes 3. Yes
4. Yes 5. Yes

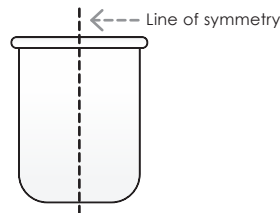
Book of Holistic Teaching

Developing better:

A. English

1. Rihan will get up early every day and will drink a glass of lukewarm water.
2. Rohan will go to a shop to fill air in his basketball.

B. Maths



C. Social Studies

In India, the responsibility for improving and maintaining the quality of air and water primarily falls under the Central Government and State Governments.

Book of Project Ideas

Making better:

Accept all relevant responses.