

**Theme 7: Keeping Us Strong**  
**Chapter 12: Protecting**  
**Our Environment—Our Activists**

**Main Coursebook**

**I am ready**

- a. Mountain    b. Valley    c. Land  
d. Lake/Pond    e. River

**Icebreaker:** WORLD ENVIRONMENT DAY

**In-text Question (Page 85)**

1. Assam
2. Green Belt Movement

**I am a learner**

- A. 1. c                      2. a                      3. c  
4. b                      5. c
- B. 1. Mulai                2. sand dunes, gardens  
3. plants, herbs    4. pesticides  
5. chimpanzees
- C. 1. Kinkri Devi protested against the uncontrolled quarrying practices in Himachal Pradesh.  
2. Rachel Carson authored the book, *Silent Spring* (1962).  
3. Rina is enacting the Chipko Movement.
- D. 1. Accept all relevant responses  
2. Accept all relevant responses

**I am an artist:** Accept all relevant responses

**MY SECRET JOURNAL:** Accept all relevant responses

**I am a doer:** 2, 3

**I am an all-rounder**

- A. **English**  
1. smoke            2. small
- B. **Maths:** The weather is classified as hot.
- C. **Science:** Accept all relevant responses

**I am a project whiz:** Accept all relevant responses

**I love my little book:** Accept all relevant responses

**Students' Worksheets**

**Worksheet 1**

- A. 1. Chipko Movement                      2. Forest Man  
3. Rajendra Singh  
4. 'Encyclopedia of Forests'  
5. Waangari Mathai
- B. 1. true                      2. true                      3. false  
4. true                      5. false
- C. 1. c                      2. d                      3. e  
4. a                      5. b

**Worksheet 2**

- A. 1. Chipko Movement                      3. Kinkri Devi  
2. Jadav Payeng                      5. Tulsi Gowda  
4. Ranaram Bishnoi
- B. 1. Sunderlal Bahuguna  
2. Jadav Payeng  
3. Kinkri Devi  
4. Rajendra Singh  
5. Ranaram Bishnoi  
6. Tulsi Gowda (Accept any five)
- C. 1. MOVEMENT                      2. EROSION  
3. DEGRADATION                      4. CONSERVATION  
5. EXTINCTION

**Worksheet 3**

- A. 1. erosion                      2. degradation  
3. Johad                      4. 50,000  
5. Honor the Earth
- B. 1
- C. Accept all relevant responses

**Worksheet 4**

- A. 1. Mulai Reserve  
2. water  
3. camel  
4. Green Belt Movement  
5. Rachel Carson
- B. 5
- C. 1

**Teacher's Worksheets**

**Worksheet 1**

- A. 1. The Chipko Movement began in the 1970s as a protest against the forest contractors.  
2. Jadav Payeng is known as the 'Forest Man of India' who created the Mulai Reserve, in the Majuli river island in Assam. He started his efforts, since 1979, have given rise to a man-made forest, the size of 15 football stadiums.  
3. Rajendra Singh, also known as the 'Waterman of India', is known for his significant role in water conservation and management in the dry regions of India, since 1986. He has achieved his purpose through the use of johad, rainwater storage tanks, check dams and other similar techniques.  
4. Tulsi Gowda is a woman who has successfully planted more than 30,000 saplings since 1968. She is well versed in the knowledge of plants and herbs. This has earned Tulsi Gowda the title of 'Encyclopedia of Forests'.

5. Rachel Carson wrote the book Silent Spring.

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

- C. 1. MOVEMENT            2. CONSERVATION  
3. ENCYCLOPEDIA            4. EXTINCT  
5. INDEGENOUS

### Worksheet 2

- A. 1. Uttarakhand            2. 50,000  
3. Waangari Mathai            4. Roots & Shoots  
5. 1990s
- B. 1. Majuli            2. 1970s  
3. 'Forest Man of India'  
4. Himachal Pradesh  
5. Honour the Earth
- C. 1. true            2. false            3. false  
4. true            5. false

## Theme 8: From Satellite to Satellite Chapter 13- Weather and Climate

### Main Coursebook

**I am ready:** Accept all relevant responses

**Icebreaker:** SEASONS

#### In-text Question (Page 93)

1. Summer, winter and monsoon
2. moisture or water vapour present in the air.

#### I am a learner

- A. 1. a            2. b            3. a  
4. a            5. c
- B. 1. Weather            2. Summer, monsoon  
3. seven            4. Equator  
5. temperature

C. 1.

Weather	Season
The condition of air temperature, air pressure, wind, humidity and rainfall in the atmosphere at a given place and time is known as weather. Weather changes every day. The weather conditions in the morning may be different from those in the evening.	The changes in weather conditions give rise to seasons. Summer, winter and monsoon are three types of seasons in India. The lifestyle of people, their eating habits, clothes and the type of houses they live in are affected by the seasons.

2. Most Himalayan peaks are covered with snow and ice even during summer. Therefore, places located at higher altitudes are colder than those at lower altitudes even if they are situated on the same latitude.
3. Shyam checks the weather report to check for rains.

- D. 1. Different parts of the world experience different types of climate. This is dependent on the various factors that affect climate, such as, distance from the Equator, height above the sea level (altitude), distance from the sea, direction of winds and humidity and rainfall. The world is divided into seven major climatic regions.
2. Extreme climate means that a region is extremely hot in summers and extremely cold in winters. Moderate climate means that the climate is neither too hot nor too cold in a region. Places close to the coast experience a moderate climate.

**I am an artist:** Accept all relevant responses

**MY SECRET JOURNAL:** Accept all relevant responses

**I am a thinker:** Accept all relevant responses

**I am an all-rounder**

#### A. English

1. gray            2. colours

B. **Maths:** 1500 ml

C. **Science:** 2. Weather satellites

**I am a project whiz:** Accept all relevant responses

**I love my little book:** Accept all relevant responses

### Students' Worksheets

#### Worksheet 1

- A. 1. weather            2. surface            3. Himalayan  
4. moderate            5. temperature
- B. 1. Equatorial            2. Savannah            3. Hot Desert  
4. Mediterranean            5. Steppes  
6. Taiga            7. Tundra  
8. Tropical Monsoon (Accept any five)
- C. 1. true            2. false            3. false  
4. true            5. true

#### Worksheet 2

- A. 1. climate            2. seven            3. vertical  
4. cooler            5. summer
- B. 1. FARMERS            2. ALTITUDE            3. BREEZE  
4. HUMIDITY            5. SNOWFALL
- C. 2

#### Worksheet 3

- A. 1. climate            2. Equator            3. Sea breeze  
4. clouds            5. three
- B. 4
- C. Accept all relevant responses

## Worksheet 4

- A. 1. seasons      2. summer, winter, monsoon  
3. Rajasthan    4. cold            5. temperature
- B. 1
- C. 2

## Teacher's Worksheets

### Worksheet 1

- A. 1. The condition of air temperature, air pressure, wind, humidity and rainfall in the atmosphere at a given place and time is known as weather.
2. Climate refers to the weather conditions that prevail in a large area, over a long period of time. The climate of a place remains nearly the same, every year. Whereas the weather changes every day. For instance, it may be hot on a certain day and rainy on another.
3. The factors that influence the climate are:
- Distance from the Equator
  - Height above the sea level (altitude)
  - Distance from the sea
  - Direction of winds
  - Humidity and rainfall
4. The places near the equator are hotter than places which are away from the Equator because they receive the vertical rays of the Sun.
5. The moisture present in the air refers to humidity. This moisture in the air causes rainfall.
- B. 1. crops            2. seven            3. sea breeze  
4. extreme climate            5. three
- C. 1. AIR PRESSURE            2. EQUATOR  
3. ALTITUDE            4. TORRID ZONE  
5. CLIMATE

### Worksheet 2

- A. 1. false            2. true            3. false  
4. true            5. false
- B. 1. WEATHER    2. RAINFALL    3. SEASONS  
4. COOLER        5. HIGHER
- C. <Take a physical map from G5\_Pearls and mark it>

## Theme 9: From Signs to Signals Chapter 14: Communication— Then and Now

### Main Coursebook

**I am ready:** Accept all relevant responses

**Icebreaker:** LETTER

### In-text Question (Page 100)

- Subscriber Trunk Dialing
- Hospitality sector

### In-text Question (Page 101)

- false
- true

### I am a learner

- A. 1. c            2. a            3. b  
4. c            5. c
- B. 1. true            2. false            3. true  
4. false            5. true
- C. 1. A trunk call refers to a long-distance call within the same country. This was used initially. People had to pay an extra amount of money for it. This call was facilitated by a telephone operator.
2. A pager is an instrument used for personal communication.
3. Smartphones are a means of personal communication. They have technologically developed from mobile phones. Many functions of a smartphone are similar to a computer. Smartphones can be used to send and receive calls, text messages and emails through the Internet.
4. Shalini is talking on a smartphone.

D. 1.

Trunk Call	STD Call
Trunk call refers to a long-distance call within the same country. Such calls were facilitated by a telephone operator. This is rarely used these days.	STD calls allow those using landline phones to dial the telephonic code particular to a state, following the person's landline number to make a phone call. Such calls did not require a telephone operator. People could also avail the same facility from a phone booth.

2. The Internet is a system that uses computer networks. It allows people to communicate through emails, video calling portals and social media.
- a. During the recent lockdown during the pandemic, the Internet allowed various office people to work from the safety of their homes. Schools held online classes for students. Many people ran profitable online businesses, also called e-businesses.

**I am an artist:** Accept all relevant responses

**MY SECRET JOURNAL:** Accept all relevant responses

**I am a doer:** Accept all relevant responses

**I am an all-rounder**

**A. English**

- Alexander Graham Bell invented the telephone.
- Martin Cooper is widely credited with the invention of the smartphone.

**B. Maths:** Accept all relevant responses

**C. Science:** Accept all relevant responses

**I am a project whiz:** Accept all relevant responses

**I love my little book:** Accept all relevant responses

**Students' Worksheets**

**Worksheet 1**

- A. 1. Communication  
2. Alexander Graham Bell  
3. trunk 4. personal  
5. Martin Cooper
- B. 1. true 2. false 3. false  
4. false 5. true
- C. 1

**Worksheet 2**

- A. 1. long-distance 2. beeps  
3. technology 4. telegraph 5. Internet
- B. 1. PAGER 2. TABLETS 3. LETTER  
4. PARCELS 5. TELEGRAM
- C. Accept all relevant responses

**Worksheet 3**

- A. 1. messages 2. short 3. computer  
4. 2013 5. emails
- B. 3, 4, 5
- C. 3

**Worksheet 4**

- A. 1. trunk 2. STD 3. smartphones  
4. Speed Post 5. e-businesses
- B. 3, 4, 5
- C. 5

**Teacher's Worksheets**

**Worksheet 1**

- Communication refers to sending and receiving messages.
- A trunk call refers to a long-distance call within the same country.
- A pager is an instrument used for personal communication. It is portable.

The instrument 'beeps' to indicate that the user is being contacted. It is also used to send and receive short messages.

- Martin Cooper is widely credited with the invention of mobile phones.
- Selling and buying of commodities/ services through online platforms can be referred to as e-business.

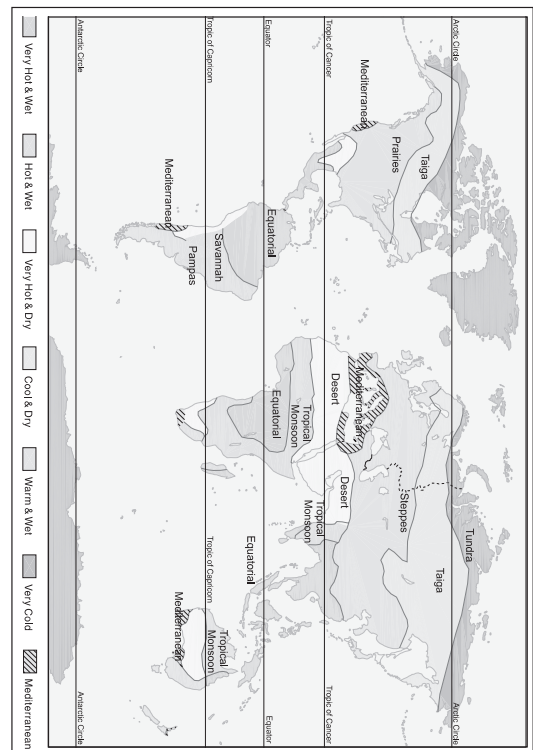
- B. 1. Alexander Graham Bell  
2. portable 3. computer  
4. telegram 5. India Post
- C. 1. SMARTPHONES 2. TABLETS  
3. INTERNET 4. MESSAGE  
5. LETTERS

**Worksheet 2**

- A. 1. true 2. true 3. false  
4. false 5. true
- B. 1. time duration 2. international  
3. hospitals 4. digital maps  
5. Money order service
- C. 1. OPERATOR 2. FIXED  
3. ONLINE 4. PANDEMIC  
5. INLAND

**Enrichment Activities**

- A. Accept all relevant responses
- B.



C. Accept all relevant responses

D. Accept all relevant responses

E.

Weather	Season
The condition of air temperature, air pressure, wind, humidity and rainfall in the atmosphere at a given place and time is known as weather.	Climate refers to the weather conditions that prevail in a large area, over a long period of time.
The weather changes every day.	The climate of a place remains nearly the same, every year.
The weather conditions in the morning may be different from those in the evening.	Different parts of the world experience different types of climate.
The changes in weather conditions give rise to seasons.	

F. Accept all relevant responses

G. 1. 3. 6.

H. Almost everyone living in this planet uses the Internet. Emails are sent with the help of the Internet. The Internet is a system that uses computer networks to work. It allows people to communicate through emails, video calling portals and social media. It is an instant mode of communication. It also allows us to share photos, videos, messages with people.

I.

Cities in India that experience a moderate climate	Hill Stations of India	Countries located near the Equator
Pune	Shimla	Indonesia
Bangaluru	Nainital	Kenya
Nashik	Darjeeling	Brazil

J. Accept all relevant responses

### Revision Worksheet

A. 1. b                      2. a                      3. b

4. a                      5. b

B. 1. d                      2. a                      3. f

4. b                      5. c                      6. e

C. 1. Kinkri Devi      2. Dr Jane Goodall

3. seven              4. Speed post

5. e-businesses

D. 1. a                      2. b                      3. a

4. a                      5. c

E. 1. The Chipko Movement began in the 1970s as a protest against the forest contractors. They were cutting trees in Uttarakhand, recklessly. Villagers came together to 'chipko' or hug trees to prevent the cutting of the trees. Sunderlal Bahuguna led the Chipko Movement in the region.

2. Noted ethologist, Dr Jane Goodall, since the 1960s, has worked for the vital need to protect chimpanzees from extinction. She founded Roots & Shoots, a global environmental programme to make positive changes for the community, animals and the environment.

3. Climate refers to the weather conditions that prevail in a large area, over a long period of time.

4. Most Himalayan peaks are covered with snow and ice even during summer. Therefore, places located at higher altitudes are colder than those at lower altitudes even if they are situated on the same latitude.

5. Communication refers to sending and receiving messages. Means of communication includes the different ways in which we communicate—personal communication and mass communication.

F. 1. True                      2. True                      3. True

4. False                      5. True

