

# Answers

## Theme 1: What Makes Our Land Chapter 1: Major Landforms

### Main Coursebook

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

#### Possible answers

- mountains: The Himalayas
- hills: Aravalli Hills
- desert: Thar Desert
- plains: Northern Plains
- islands: Andaman and Nicobar Islands/  
Lakshadweep Islands

**Icebreaker:** ISLAND

#### In-text Question (Page 3)

- Peak or summit
- The Tibetan Plateau

#### In-text Question (Page 4)

- false
- true

#### I am a learner

- A. 1. a                      2. b                      3. a  
4. b                          5. b
- B. 1. true                  2. true                  3. false  
4. false                  5. false
- C. 1. The Appalachians and the Aravallis are old mountains.  
2. The Kalahari and the Sahara Deserts are located in Africa.  
3. This is because it is difficult to construct railway tracks on higher altitudes.

D. 1.

Old Mountains	Young Mountains
Old mountains are low and have rounded peaks.	Young mountains are tall and have conical or pointed peaks.
The Appalachians and the Aravallis are examples of old mountains.	The Himalayas and the Alps are examples of young mountains.

- At its old course, the river joins a larger water body, such as a sea or a lake. Here, its speed is very slow. The river creates a delta by depositing the silt it carries near the mouth. A delta is a land, triangular in shape.

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

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

**I am a thinker:** Mountains have sharp slopes and a thin soil cover. This makes it difficult to grow crops there. Mountainous areas have less population due to unsuitable climate and lack of flat terrain that makes transportation difficult.

#### I am an all-rounder

##### A. English

- There are varied landforms on the Earth.
- Mountains are rich in pasture lands and forests.

##### B. Maths

Number	0	0	9	3	5	1	3	9
Place	Crores	Ten Lakhs	Lakhs	Ten Thousands	Thousands	Hundreds	Tens	Ones
Place Value			9,00,000	30,000	5,000	100	30	9

C. **Science:** Igneous rocks are found at the base of all landforms.

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

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

### Students' Worksheets

#### Worksheet 1

- A. 1. Mountains    2. Plateau    3. Plain  
4. Desert    5. River
- B. 1. false    2. false    3. true  
4. true    5. false
- C. 1. MOUNTAINS    2. PLATEAUS    3. PLAINS  
4. DESERTS    5. RIVERS

#### Worksheet 2

- A. 1. height    2. young    3. vast  
4. level    5. western
- B. 1. b    2. a    3. e  
4. c    5. d
- C. 5. atmosphere

#### Worksheet 3

- A. 1. age    2. flat    3. Asia  
4. plains    5. sand
- B. 1. OLD    2. PEAK    3. YOUNG  
4. HEIGHT    5. FORESTS
- C. 1. false    2. false    3. true  
4. false    5. false



1 hour = 60 min. Thus, the Earth takes  $24 \times 60 = 1440$  minutes for one complete rotation. Again, we know that there is a total of 360 meridians. So, if we divide the total number of minutes by the total number of meridians, we will get the time difference between two longitudes. That is,  $1440 \div 360 = 4$

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

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

**I am a doer:** No, it is not the right time to call Rehmat since it is nighttime in her country.

**I am an all-rounder**

**A. English**

1. Subject: All meridians, Predicate: have the same length.
2. Subject: Meridians, Predicate: help us calculate time.

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

**C. Science:** They will use solar energy. This is because Brazil lies close to the Equator. Places near the Equator receive direct rays of the Sun.

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

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

## Students' Worksheets

### Worksheet 1

- A. 1. spherical    2. parallel/line of latitude  
3. same    4. London  
5. Meridians
- B. 1. e    2. d    3. a  
4. b    5. c
- C. 1. true    2. false    3. true  
4. false    5. true

### Worksheet 2

- A. 1. imaginary    2. Poles    3. equal  
4. four    5. time
- B. 1. POLE    2. NORTH    3. GRID  
4. TIME    5. AXIS
- C. Accept all relevant responses

**Suggested Answer:**

1. Meridians or lines of longitude locate places in the east or west directions.
2. They are drawn from pole to pole and run from north to south.
3. All meridians have the same length.
4. Towards the Equator, meridians have the maximum distance between them.

5. Prime Meridian is affixed as the starting point for numbering the meridians.

### Worksheet 3

- A. 1. Parallels/Lines of Latitude  
2. Equator    3. Polar Circles  
4. Prime Meridian    5. 12
- B. 2, 3
- C. 1. places    2. east to west    3.  $0^\circ$   
4. 24    5. International Date Line

### Worksheet 4

- A. 1. imaginary    2. 181    3. 360  
4. halves    5. Western
- B. 3.
- C. 2, 3

## Teacher's Worksheets

### Worksheet 1

- A. 1. c    2. e    3. a  
4. b    5. d
- B. 1. spherical    2. axis    3. Equator  
4. value    5. 181
- C. 1. Axis is an imaginary line drawn through the middle of the Earth. The Earth rotates on its own axis.  
2. The Arctic circle and The Antarctic circles are also called polar circles.  
3. In 1884, Greenwich, a place near London, was affixed as the starting point for numbering the meridians.  
4. The point where parallel and meridian intersect on the globe is known as a grid.  
5. There are 360 meridians in total

### Worksheet 2

- A. 1. True    2. True    3. False  
4. False    5. True
- B. 1. Parallels or lines of latitude are lines of reference drawn on a globe. These are set of circles, running from east to west.  
2. The Equator is marked as  $0^\circ$  latitude. We take it as the starting point to number the parallels.  
3. The important parallels are the Equator ( $0^\circ$ ), The North Pole ( $90^\circ$  N), the South Pole ( $90^\circ$  S), the Tropic of Cancer ( $23\frac{1}{2}^\circ$  N), the Tropic of Capricorn ( $23\frac{1}{2}^\circ$  S), the Arctic Circle ( $66\frac{1}{2}^\circ$  N) and the Antarctic Circle ( $66\frac{1}{2}^\circ$  S)  
4. We may locate a place on the globe by knowing the value of its parallel and meridian.  
5. Meridians help us calculate time.
- C. Accept all relevant responses



- C. 1. Tsunami 2. Earthquake 3. Forest fire  
4. Volcanoes 5. Storms

### Worksheet 5

- A. 4. earthquake  
B. 5. volcanic eruptions  
C. 1. The term tsunami means great harbour waves.  
2. Cyclones are common in coastal states.  
3. Floods cause water-borne diseases.  
4. A seismograph documents the vibrations of an earthquake.  
5. Landslides are caused by the movement of debris, mud or rocks down a mountain slope.

### Teacher's Worksheets

#### Worksheet 1

- A. 1. True 2. False 3. False  
4. True 5. True  
B. 1. c 2. d 3. e  
4. a 5. b  
C. 1. Natural disasters refer to forces of nature that cause destruction to life and property.  
2. The point above the focus is called the epicentre.  
3. The term tsunami means 'great harbour waves'.  
4. Volcanic eruptions occur when molten rocks, called magma, comes up through an opening on the Earth's surface.  
5. Community is always the first one to provide help during and after a disaster.

#### Worksheet 2

- A. 1. malaria 2. seismograph  
3. deforestation 4. Coastal  
5. hospitals, police stations  
B. 1. Floods 2. Earthquake  
3. Tsunamis 4. Cyclone  
5. Volcanoes  
C. Accept all relevant responses

### Theme 3: Different Yet Alike Chapter-4: The Frigid Zone – The Land of Snow

### Main Coursebook

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

**Icebreaker:** GLACIER

#### In-text Question (Page 21)

1. Greenland 2. North America

#### In-text Question (Page 22)

1. false 2. true

#### I am a learner

- A. 1. a 2. b 3. a  
4. a 5. a  
B. 1. Polar Regions 2. arctic  
3. white 4. tou pigs  
5. hunting  
C. 1. An igloo is a snow-house made with large blocks of ice. They are dome-shaped.  
2. Kayaks are small boats, used to hunt sea animals. Umiak is a broader boat used to hunt whales.  
3. Saira does not undertake jungle safari because Greenland arctic climate means that crops and forests cannot grow there. So, Greenland has no jungles.  
D. 1. Greenland is situated towards the north-east of North America. It is a part of Denmark. Greenland is separated from the northern islands of Canada through the Baffin Bay and the Davis Strait.  
2. Inuits or Eskimos are the original inhabitants of Greenland. Eskimos wear clothes made of seal skin. They usually wear parkas, a special warm jacket with a hood to cover their heads. They also wear boots made of seal skin to keep themselves warm. Those who live in the northernmost region of the island, build igloos or snow-houses for winters. In summer, people also live in animal hide tents or tou pigs. Inuits engage in hunting and fishing.

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

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

**I am a doer:** 1. Butter

**I am an all-rounder**

- A. **English**  
1. birds 2. Circle  
B. **Maths:**  $\frac{215}{10}$   
C. **Science:** This movement is known as migration.

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

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

### Students' Worksheets

#### Worksheet 1

- A. 1. three 2. Greenland 3. Huskies  
4. igloo 5. harpoons

- B. 1. false      2. false      3. true  
4. false      5. false

C. Accept all relevant responses

### Worksheet 2

- A. 1. Polar                      2. North  
3. Inuits/Eskimos      4. transport  
5. sledges
- B. 1. d                      2. e                      3. c  
4. a                      5. b
- C. Greenland's climate is arctic. The long and cold winter lasts for nine months. Chilly winds blow along with heavy snowfall. For many weeks, the Sun does not rise. Summer, on the other hand, are cool and short, lasting for only a couple of months. The coastal areas are very bright and sunny in summer.

### Worksheet 3

- A. 1. Icebergs      2. no                      3. ice  
4. Umiaks      5. Nuuk
- B. 4
- C. 1. Greenland                      2. Arctic  
3. Nuuk/Godthab      4. Igloos  
5. Kayak

### Worksheet 4

- A. 1. Arctic Circle, North Pole      2. tou pigs  
3. Inuits      4. parkas      5. Ilulissat
- B. 3
- C. 1. POLES      2. SNOW      3. SEAL  
4. IGLOO      5. ISLAND

## Teacher's Worksheets

### Worksheet 1

- A. 1. True      2. False      3. True  
4. False      5. True
- B. 1. b                      2. d                      3. e  
4. a                      5. c
- C. 1. The Earth has two Frigid Zones – The North Frigid Zone and The South Frigid Zone.  
2. Greenland is situated towards the north-east of North America.  
3. Almost 80 per cent of the island is always covered with ice and snow.  
4. Very few plants like mosses, lichens, grasses and boshes grow in Greenland due to the arctic climate.  
5. Inuits or Eskimos are the original inhabitants of Greenland.

### Worksheet 2

- A. 1. Greenland                      2. Inuits or Eskimos  
3. thick                      4. parkas  
5. Umiak
- B. 1. DENMARK                      2. DAVIS STRAIT  
3. ICEBERGS                      4. HUSKIES  
5. GODTHAB
- C. Accept all relevant responses

## Theme 3: Different Yet Alike Chapter-5: The Temperate and Tropical Zones

### Main Coursebook

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

**Icebreaker:** FOREST

### In-text Question (Page 27)

- Downs
- The Mississippi and Missouri Rivers

### In-text Question (Page 28)

- false
- true

### I am a learner

- A. 1. c                      2. c                      3. b  
4. a                      5. c
- B. 1. False                      2. True                      3. False  
4. True                      5. True
- C. 1. The term Prairie (in French) means 'a grassland'. They are located in North America.  
2. Coyotes, bison and Prairie dogs are found in the Prairies. (Accept any two)  
3. Saima does not opt for a car or a bus because the roadways of the DRC are not very well-developed. On the other hand, the waterways of the DRC are extensively developed.
- D. 1. Wheat is cultivated in the central part, corn or maize in the eastern part and cattle is reared in the western part. In the Prairies, the wheat that is cultivated is sufficient for the country as well as for export. Thus, the Prairies are known as the 'Wheat Basket of the World.'  
2. The equatorial forests are also called evergreen forests as they remain green throughout the year. This is because the trees shed their leaves at different times of the year. Animals such as gorillas and monkeys live in the rainforests. Elephants and rhinoceros are found in marshy lands. The rivers are home to alligators



- C. 1. The Kalahari Desert and the Sahara Desert are located in Africa.
2. The nomadic inhabitants of the Arabian Desert are called the Bedouins.
3. During summer, the Bedouins settle near an oasis. So, they do not face the problem of scarcity of water.
- D. 1. We know that plants in a desert can keep up with the harsh climate. Many have deep roots to absorb water from the soil. A cactus has a plump and soft stem and roots to store water. Date palm, tamarisk and sedge are commonly found here. Very few crops grow here due to the arid climate. Wheat, rice, alfalfa, dates and vegetables are commonly grown near oases (singular, oasis).
2. Bedouins are nomads who inhabit the Arabian and the Sahara Deserts. Their livelihood depends on rearing sheep, camels and horses. In summers, Bedouins stay near an oasis. They trade animals and animal products for food grains, dates and so on. The Bushmen of the Kalahari Desert also live the same life. At present, many Bedouins have given up their nomadic life to settle in urban areas.

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

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

**I am a doer:** 2. Just take a sip of water.

**I am an all-rounder**

- A. **English:** 2
- B. **Maths:**  $\frac{5}{12}$
- 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. Torrid                      2. Saudi Arabia  
3. sandy                      4. camel                      5. Riyadh
- B. 1. true                      2. false                      3. false  
4. true                      5. false
- C. 1. Asia                      2. Africa                      3. Asia  
4. Africa                      5. Australia

### Worksheet 2

- A. 1. hot                      2. nine                      3. Camels  
4. oasis                      5. skyscrapers

- B. 1. d                      2. e                      3. b  
4. c                      5. a

C. Accept all relevant responses

### Worksheet 3

- A. 1. Africa                      2. west                      3. harsh  
4. desalinating                      5. Bushmen
- B. 1. Arabian Peninsula                      2. cactus  
3. baobab tree                      4. camel                      5. Jeddah
- C. 1. OASIS                      2. CACTUS                      3. SNAKES  
4. NOMAD                      5. SCORPION

### Worksheet 4

- A. 1. desert                      2. September                      3. water  
4. Riyadh                      5. Medina
- B. 2
- C. Accept all relevant responses

## Teacher's Worksheets

### Worksheet 1

- A. 1. Torrid                      2. two                      3. Saudi Arabia  
4. tableland                      5. sandy
- B. 1. The Great Australian Desrt (Australia), the Sahara and the Kalahari Desert (Africa), the Arabian Desert (Asia).  
2. A desrt refers to a place that receives less than 25 cm of rainfall annually.  
3. The peninsula is located in south-west Asia.  
4. Bedouins are nomads who inhabit the Arabian and the Sahara Deserts.  
5. The capital of Saudi Arabia is Riyadh.
- C. Accept all relevant responses

### Worksheet 2

- A. 1. west                      2. fifth  
3. nine                      4. May, September  
5. October, April
- B. 1. True                      2. False                      3. True  
4. False                      5. True
- C. Accept all relevant responses

## Enrichment Activities

A. Accept all relevant responses

**Suggested answer:**

**Greenland –**

- Greenland does not have forests or crops due to harsh climate.
- The animals in Greenland have thick and funny coats.
- Greenland has arctic climate.
- Inuits or Eskimos are the original inhabitants of Greenland.



### Saudi Arabia –

1. We can find cactus in Saudi Arabia.
  2. Date palm, tamarisk and sedge are commonly found in Saudi Arabia.
  3. Very few crops are grown here due to arid climate.
  4. Saudi Arabia is home to various insects, snakes, birds of prey and scorpions
- B. 1. Mountains 2. Tablelands 3. Plains  
4. Deserts 5. Rivers
- C. 1. GREENWICH 2. PARALLELS  
3. EQUATOR 4. MERIDIANS  
5. GRID
- D. 1. Flood 2. Dengue 3. Earthquake  
4. Cyclone 5. Tsunami  
6. Volcanic eruption
- E. 1. Polar Bear 2. The Frigid Zone  
3. It has a thick and furry coat.
- F. Accept all relevant responses

### Suggested Answer:

1. The DRC is in Central Africa.
  2. The DRC has nine neighbour countries.
  3. River Congo flows through this country.
  4. The climate in the DRC is hot and rainy all round the year.
  5. Most people in the DRC are engaged in farming, fishing, forestry and mining.
- G. Accept all relevant responses

### Mountains:

Any one feature – Mountains spread over 20 per cent of the Earth's total land area.

Example – The Himalayas

Importance – Mountains protect us from extreme hot and cold winds.

### Tablelands:

Any one feature – Plateaus have many rivers and streams.

Example - The Tibetan Plateau

Importance - Many tablelands have rich deposits of minerals.

### Plains:

Any one feature – More people live on plains, as compared to mountains and tablelands.

Example – The Northern plains of India

Importance – Plains are suitable for growing crops.

### Rivers:

Any one feature – A river goes through three courses from its location of origin to its mouth.

Example – River Ganga

Importance - The rivers carry rainwater or water from melted snow and ice from mountains to plains, lakes and seas.

- H. 1. The Equator  
2. The Arctic and the Antarctic Circles  
3. 0°  
4. Southern Hemisphere  
5. Northern Hemisphere
- I. 1. c 2. b 3. a  
4. a 5. c 6. c
- J. 1. A bison 2. A coyote 3. An okapi  
4. A homestead
- K. 1. Gorilas 2. Monkeys 3. Elephants  
4. Rhinoceros 5. Okapis
- L. 1. The Great Australian Desert (Australia)  
2. The Sahara Desert (Africa)  
3. The Kalahari Desert (Africa)  
4. The Arabian Desert (Asia)  
5. The Thar Desert (Asia)

### Revision Worksheet

- A. 1. a 2. b 3. a  
4. a 5. b 6. b
- B. 1. Plateaus comprise grasslands. Cattle and sheep are reared here. Many tablelands have rich deposits of minerals.  
2. Volcanic eruptions occur when molten rocks, called magma, comes up through an opening on the Earth's surface.  
3. The intersection point of a parallel and meridian is known as a Grid.  
4. Prarities are known as the 'Wheat Basket of the World' because wheat that is cultivated is sufficient for the country as well as for export.  
5. The Frigid Zone is the coldest heat zones on the Earth.
- C. 1. CANYON 2. EQUATOR 3. TSUNAMI  
4. FRIGID 5. CONGO 6. KALAHARI
- D. 1. g 2. f 3. a  
4. b 5. c 6. e  
7. d
- E. Accept all relevant responses

### Suggested Answers:

1. Mountains spread over 20 per cent of the Earth's total land area.  
Mountains protect us from extreme hot and cold winds, by acting as a physical wall.  
Mountains are home to many rivers that provide water for irrigation.

2. Cyclones are rough storms in which strong winds move in a circular motion.  
Cyclones are followed by heavy rains and strong winds.  
Coastal states of India are prone to cyclones, such as West Bengal, Odisha, Andhra Pradesh.
3. Meridians or lines of longitude locate places in the east or west directions.  
They are drawn from pole to pole and run from north to south.  
All meridians have the same length.
4. Deserts are dry landforms.  
Deserts receive little or no rainfall.  
Deserts are characterised by hot days, cold nights and recurrent dust storms.
5. The Earth has two Frigid Zones.  
The North Frigid Zone is located between the North Pole and the Arctic Circle.  
These places remain very cold throughout the year.

- |                                       |                      |           |
|---------------------------------------|----------------------|-----------|
| F. 1. b                               | 2. b                 | 3. a      |
| 4. b                                  | 5. b                 | 6. a      |
| G. 1. ARAVALLIS                       | 2. PLAINS            | 3. LONDON |
| 4. DENGUE                             | 5. OKAPI             | 6. MEDINA |
| H. 1. F                               | 2. F                 | 3. T      |
| 4. T                                  | 5. T                 | 6. T      |
| I. 1. Tropic of Cancer, Arctic Circle |                      |           |
| 2. The Torrid Zones                   |                      |           |
| 3. The Frigid Zone                    |                      |           |
| 4. The Torrid Zones                   |                      |           |
| 5. The Tropical                       |                      |           |
| 6. The Frigid Zones                   |                      |           |
| J. 1. lower                           | 2. 23 ½ ° N          |           |
| 3. seismograph                        | 4. Eskimos or Inuits |           |
| 5. ice                                | 6. hot               |           |