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The National Anthem of Sri Lanka

Sri Lanka Matha

Apa Sri Lanka Namo Namo Namo Namo Matha

Sundara siri barinee, surendi athi sobamana Lanka

Dhanya dhanaya neka mal palaturu piri jaya bhoomiya ramya

Apa hata sepa siri setha sadana jeewanaye matha

Piliganu mena apa bhakthi pooja Namo Namo Matha

Apa Sri Lanka Namo Namo Namo Namo Matha

Oba we apa vidya

Obamaya apa sathy

Oba we apa shakthi

Apa hada thula bhakthi

Oba apa aloke

Apage anuprane

Oba apa jeevana we

Apa mukthiya oba we

Navajeevana demine, nithina apa pubudukaran matha

Gnana veerya vadawamina regena yanu mana jaya bhoomi kara

Eka mavakage daru kela bevina

Yamu yamu vee nopama

Prema vada sema bheda durerada

Namo, Namo Matha

Apa Sri Lanka Namo Namo Namo Namo Matha

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Being innovative, changing with right knowledge,
Be a light to the country as well as to the world.

Message from the Hon. Minister of Education

The past two decades have been significant in the world history due to changes that took place in technology. The present students face a lot of new challenges along with the rapid development of Information Technology, communication and other related fields. The manner of career opportunities are liable to change specifically in the near future. In such an environment, with a new technological and intellectual society, thousands of innovative career opportunities would be created. To win those challenges, it is the responsibility of the Sri Lankan Government and myself, as the Minister of Education, to empower you all.

This book is a product of free education. Your aim must be to use this book properly and acquire the necessary knowledge out of it. The government in turn is able to provide free textbooks to you, as a result of the commitment and labour of your parents and elders.

Since we have understood that the education is crucial in deciding the future of a country, the government has taken steps to change curriculum to suit the rapid changes of the technological world. Hence, you have to dedicate yourselves to become productive citizens. I believe that the knowledge this book provides will suffice your aim.

It is your duty to give a proper value to the money spent by the government on your education. Also you should understand that education determines your future. Make sure that you reach the optimum social stratum through education.

I congratulate you to enjoy the benefits of free education and bloom as an honoured citizen who takes the name of Sri Lanka to the world.

A handwritten signature in black ink, appearing to read "Akila Viraj Kariyawasam".

Akila Viraj Kariyawasam
Minister of Education

Foreword

The educational objectives of the contemporary world are becoming more complex along with the economic, social, cultural and technological development. The learning and teaching process too is changing in relation to human experiences, technological differences, research and new indices. Therefore, it is required to produce the textbook by including subject related information according to the objectives in the syllabus in order to maintain the teaching process by organizing learning experiences that suit to the learner needs. The textbook is not merely a learning tool for the learner. It is a blessing that contributes to obtain a higher education along with a development of conduct and attitudes, to develop values and to obtain learning experiences.

The government in its realization of the concept of free education has offered you all the textbooks from grades 1-11. I would like to remind you that you should make the maximum use of these textbooks and protect them well. I sincerely hope that this textbook would assist you to obtain the expertise to become a virtuous citizen with a complete personality who would be a valuable asset to the country.

I would like to bestow my sincere thanks on the members of the editorial and writer boards as well as on the staff of the Educational Publications Department who have strived to offer this textbook to you.

W. M. Jayantha Wickramanayaka,
Commissioner General of Educational Publications,
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2019.04.10

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Note of the Board of Writers / Editors

This textbook has been prepared for you who begin to study Geography from grade six to provide the opportunity to study about the immediate surroundings of your home/ school and our country in a simple way.

The information shown under the immediate surroundings of your school and home, such as the location, physical landscape, weather, flora and fauna and day to day activities of the people in your area are familiar to you. While learning the above information your attention is focused on learning about the protection of the environment and its sustainable development.

The book has also provided the opportunity for you to build the basic concepts of maps which are necessary for Geography.

This textbook has been written giving importance for activities and assignments which can be completed under the guidance of teachers and it would also become a practical work book for you. Accordingly, the relevant pictures, photographs, maps, diagrams, grids and data are included in this book.

The main objective of this textbook is to provide a basic geographical knowledge to you through an active and pleasant learning environment.

Determine to be a little Geographer of the environment at the end of the year by learning these information with a keen interest.

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The School and its Immediate Surroundings

Children are the most important treasure in our society. The child receives his basic education to mould his life from his childhood, from his parents and elders in the family. As the child grows, the school becomes the formal institution that provides education. There is a large number of schools in Sri Lanka. They are located in rural, urban, hilly and coastal environments.

Identifying the Location of a School

It may be easy for you to answer if someone asks the name of the village or the town in which the school is located. However, it is not that easy to answer when someone asks the location of your school according to the administrative division.

The objective of this lesson is to guide you how to indicate the location of your school appropriately.

Observe figure 1.1. The Grama Niladhari Division is the smallest administrative unit in which the school is located. The Grama Niladhari Division is made up of one or more villages.

There can be several Grama Niladhari Divisions in a city. Every Grama Niladhari Division has a number and a name. There may be several Grama Niladhari Divisions in a Divisional Secretariat.

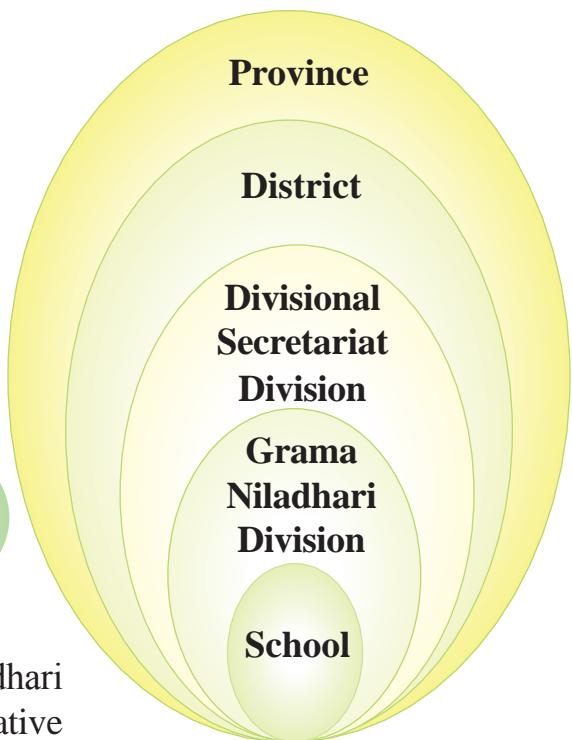


Figure 1.1
The location of your school in the divisional administrative hierarchy

A district constitutes a collection of several Divisional Secretariat Divisions. Two or more districts make a province which is the largest administrative division in the country.

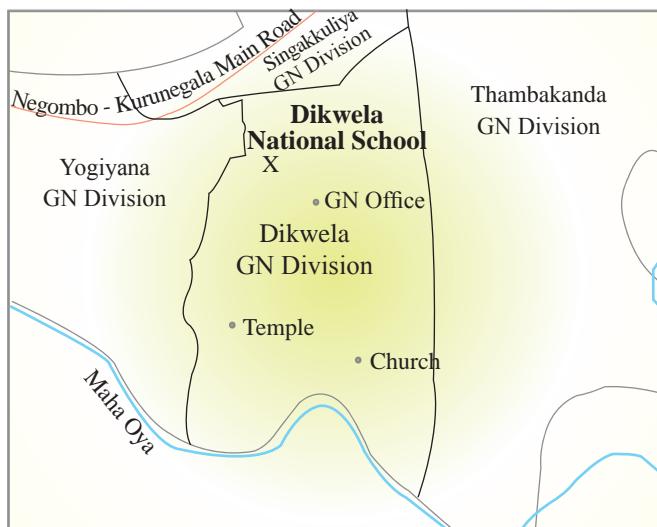
Activities

With the help of your teacher, present the following information about the location of your school.

1.
 - Village or town
 - Name and number of the Grama Niladhari Division
 - Divisional Secretariat Division
 - District
 - Province

in which your school is located.
2. Write five sentences about the location of your school in relation to the information you obtained.

Observe Map 1.1. Letter ‘X’ indicates the location of the Dikwela National School. You too can get a similar map from the Grama Niladhari of the Grama Niladhari Division to which your school belongs.



Map 1.1
Location of the school in the Grama Niladhari Division

Assignments

1. Trace the map you obtained from the Grama Niladhari and mark the place where your school is located.
2. Name 5 public places located in the immediate surroundings of your school.

Marking the Location of the School on a Map of Sri Lanka

Map 1.2 indicates the districts and the provinces in Sri Lanka.



Map 1.2
Provinces and Districts of Sri Lanka

Activities

01. Observe map 1.2 and prepare a table including the provinces and the districts that belong to each province.

Province	District

02. Trace a map of Sri Lanka that includes provinces and districts. Shade the province that your school is in, with a light colour and the district with a dark colour and name them.
03. With your teacher's instructions, mark and name the village or the town in which your school is located.
04. Name the other districts bordering the district in which your school is located.

Normally, we use the name of the educational division, zone, district and the province along with the name of the school to indicate the identity of the school.

A. NWP/CH/WEN/ Dikwela Primary School, Yogyiana.

School 'A' is located in the educational division of Wennappuwa, in the educational zone of Chilaw in the North Western province.

B. Jaf/Manipai Hindu College, Manipai, Jaffna.

School 'B' is located in the Jaffna district.

Assignment

With the instructions of your teacher, write names of five schools located in different provinces of Sri Lanka.

Shape of the Land of the School

Figure 1.2 shows a location of a school premises. The parapet wall and the fence indicate the boundaries of the land. We can identify the shape of the land with the help of the boundaries. The picture shows buildings in the school premises, a bank and roads located close to the school.



Figure 1.2
Location of a school garden

Figure 1.3 shows the plan of that school premises. Letter ‘X’ indicates the Grade six class in the plan. All the features shown in figure 1.2 are marked on the plan using different symbols. Compare the picture and the plan to identify the differences.

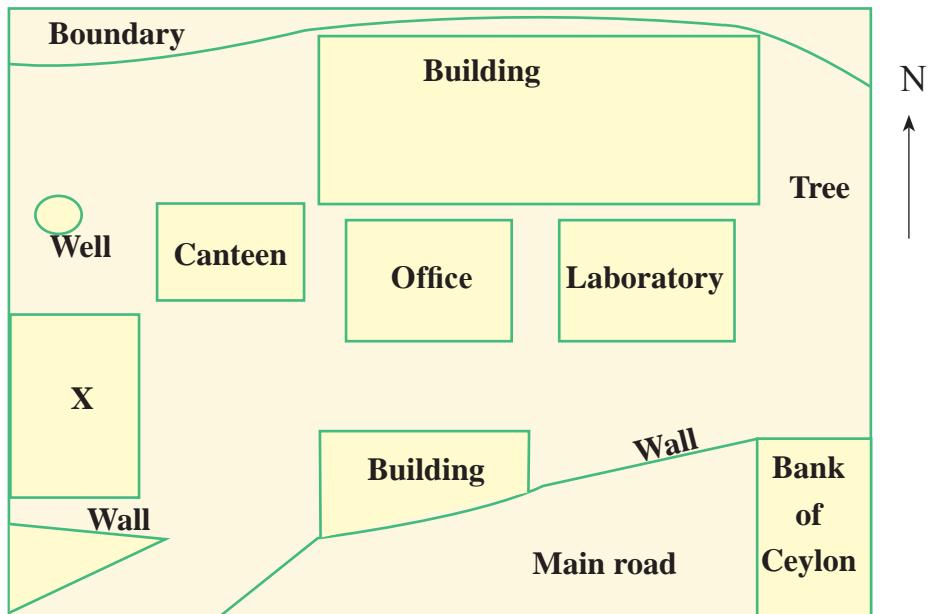


Figure 1.3
Plan of the school garden

Identification of the Direction

Indication of the direction is important when drawing a plan. We use a compass to find the direction correctly. Use the compass at school and find out the direction of North of the classroom. You can identify other directions as well, when you identify the North.

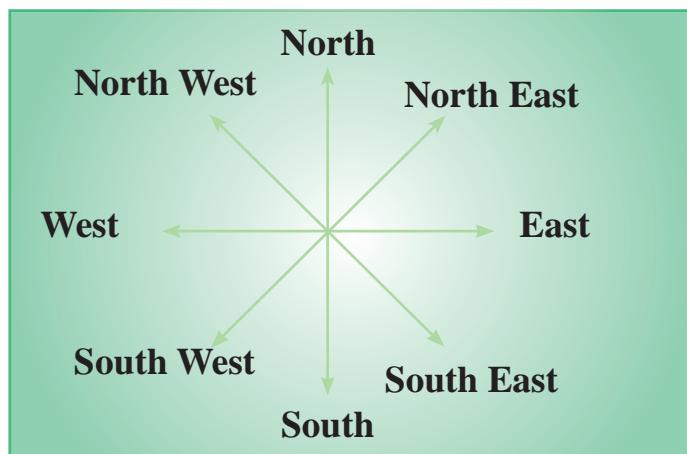


Figure 1.4
Diagram of directions

Activity

Look at figure 1.4 and fill in the blanks.

- I. is located between North and East.
- II. is located between South and East.
- III. is located between South and West.
- IV. is located between West and North.

You can identify the directions according to the direction of the sunrise in the morning, if a compass is not available. When you stand facing the rising sun, stretching your hands, your right hand points to the direction of the South. The opposite direction to which your left hand is pointed, is the North. Accordingly, you can identify the other directions. Here, you can see your shadow behind you. Look at figure 1.5.



Figure 1.5
Identification of the directions

Activities

1. Use figure 1.3 as an example. Draw a plan of your school garden and mark your Grade six classroom, using a symbol.
2. Mark the specific places of your school on that plan, such as the library, laboratory and the principal's office.
3. Name the directions of those places from your classroom.

Indicating the Directions of Some Selected Places from the School

Figure 1.6 shows two models that indicate directions.

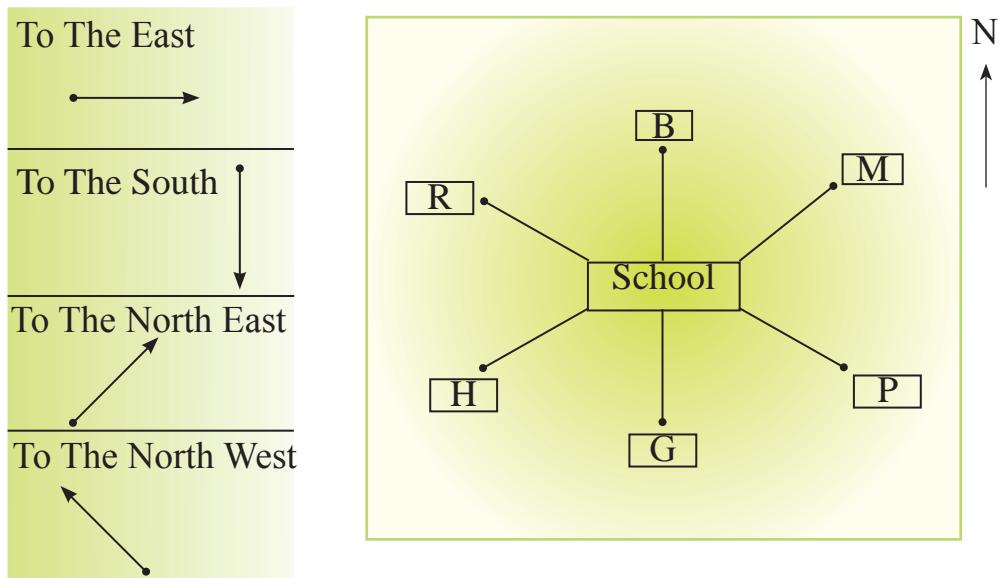


Figure 1.6
Directions of the public places from the school

B – Bank

G – Playground

M – Market

R – Reservoir

H – Hospital

P – Post Office

Activity

Observe figure 1.6 and name the directions of the above places as you observe them from school.

Assignment

1. Draw a plan similar to the above, to indicate the places located in the surroundings of your school with your teacher's instructions.
 - First indicate the North of the plan.

- Select a few public places of the immediate surroundings of your school which you can identify clearly. Indicate their locations in the map, according to the direction.
- Mention the distance to each of the places in metres or kilometres approximately.
- Present a key to indicate the symbols used to show the places identified by you.



2. The above map, taken from the internet (Google Earth) indicates the location of a school. If you have internet facilities in your school, get the map of your school and describe its location.

Weather Conditions of the Immediate Surroundings of the School

Weather conditions found in various environments may vary from each other. Accordingly, there may be weather conditions such as warm, dry, rainy, windy and misty.

The objective of this lesson is to guide you to observe the weather conditions of the immediate surroundings of your school.



Figure 1.7
Several places with various weather conditions

The weather condition found in a particular place may differ from the weather condition of another place. Although we identify different weather conditions in various places, they may change during the day. The reason for this is, that the nature of weather is not always the same. You can understand that the nature of the

morning environment gradually changes, by the differences that you feel as well as by your observations of the surroundings. See figure 1.7.

When observing the environment, the things that you feel and see such as temperature, rainfall and wind are called elements of weather.

The condition of the atmosphere that prevails for a short period of time in a particular area is called weather.

Change of weather conditions according to time and place is its nature. The weather report telecast daily after the news on television reveals information about weather changes in different places. Study the following weather report carefully.

During the last 24 hours ending at 9 a.m. today, the maximum rainfall of 200 mm was reported from Katunayaka, while the maximum temperature of 30°C was reported from Trincomalee. The minimum temperature of 12°C was reported from Nuwara Eliya. There will be heavy rains in the West, South and western slopes of the central hills during the next 24 hours due to South Western winds.

Activities

1. Name the weather elements presented in this weather report.
2. What is the maximum rainfall in millimetres according to that report?
3. Write the places where maximum and minimum temperatures have been reported.
4. Name the direction of the wind that blows into the country.
5. What is the weather forecast revealed by the weather report?

Assignment

Find weather reports presented by different media and present them to the class and discuss about them.

The Department of Meteorology is located at Bauddhaloka Mawatha, Colombo and there are many regional meteorological centres throughout the island connected to it.

The Department of Meteorology prepares the weather report on the basis of data, collected daily about the weather elements from various centres. At present, there are advanced equipment to measure the weather elements. Find out whether there is such a centre located in the immediate surroundings of your school.

You too can make some equipment in the classroom to measure weather conditions. Using those equipment, observe the nature of the weather in the immediate surroundings of your school and understand the differences.

Temperature

- Temperature is the main element of weather.
- The sun provides temperature and heat.
- Using a thermometer, we can measure temperature. Temperature is measured by units of Celsius and Fahrenheit degrees.
- Dry weather conditions occur when there is extreme solar heat and temperature.

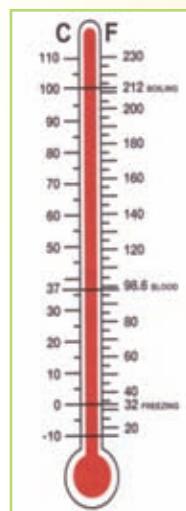


Figure 1.8
Thermometer

Assignments

1. Record the daily temperature of a specific place selected at the school premises using the thermometer in the laboratory. You can record them for a period of a week or month.
2. Write three sentences about the changes of temperature that have taken place according to the record you prepared.

Rainfall (Precipitation)

- Water that is in oceans, on land and in plants turn into vapour due to the heat of the sun.
- This water vapour rises up in the atmosphere. Then it cools and condenses.
- Clouds are formed with the condensation of water vapour. We receive rain through this process.
- We can measure rain using a rain gauge. Rain is measured in millimetres.



Figure 1.9
Rain Gauge

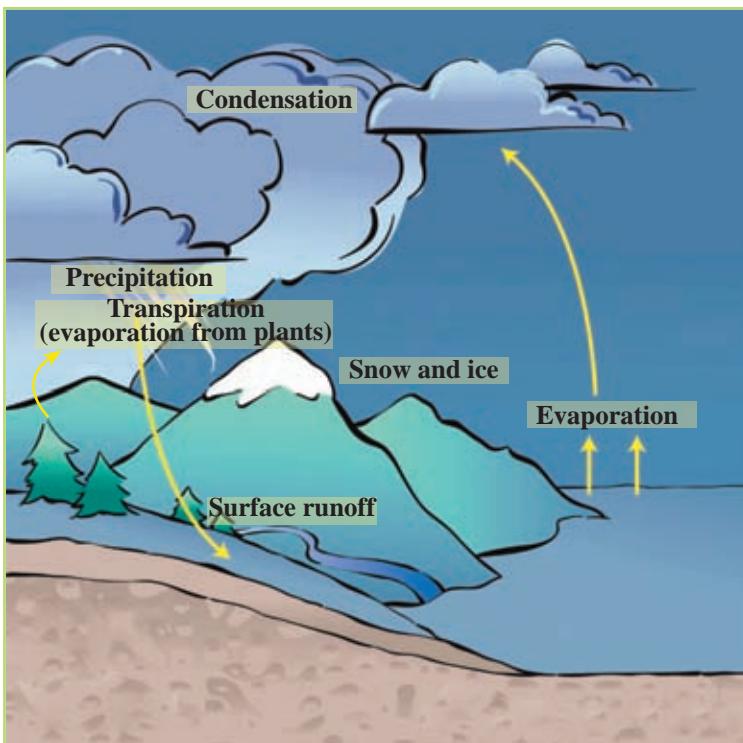


Figure 1.10
The Process of precipitation

Activities

1. Write three benefits we obtain from rain.
2. Prepare a table to show the features that occur in the environment before and after a rain.

Assignment

Make a rain gauge with the instructions of your teacher.

- Take a transparent, cylindrical plastic bottle with a flat bottom and remove 1/3 of it from the upper part.
- Place the part that has been removed upside down as a funnel, on the other part of the bottle.
- Paste a strip of paper marked with millimetres on the bottom part of the bottle and cover it with a cello tape.
- Keep it in an open space at a higher level in the garden of your school / home. Measure the rainfall in your area daily and keep records.
- Write three sentences about the rainfall in the relevant area observing the records you kept.

Wind

- When you observe the environment, you can see moving leaves and branches of trees. You can also feel the cold.
- It happens as a result of the blowing wind.
- The branches of trees bend in the direction of wind.
- The wind that blows at a higher speed is called a storm. The wind that blows with a lesser speed is called a breeze.
- The wind direction indicator shows the direction of the wind.
- The anemometer is used to measure the speed of wind.
- It is measured in kilometres per hour.



Figure 1.11
Wind Direction Indicator and Anemometer

- You can enjoy the cool breeze near oceans, rivers, streams and reservoirs.

Assignment

- I. Make a wind direction indicator with the guidance of your teacher.
- II. Keep it in an open place in your school garden and observe how the direction of the wind changes.

Clouds

- When you observe the sky, you can see clouds of different shapes and colours. (figure 1.12)
- You can see the nature of clouds when you observe them.
- Before rain, you can see thick dark clouds in the sky.
- When there are no clouds, the sky is clear and blue.



Figure 1.12
Clouds of various shapes

According to the above information, you can collect data related to weather in the immediate surroundings of your school using different types of equipment and observations.

The weather elements, the equipment and the units used to measure them are shown in table 1.1. Study them well.

Table1.1
Weather Elements, Equipment and Units of Measurement

Weather element	Equipment	Unit
Temperature	Thermometer	Degrees of Celsius/ Fahrenheit
Rainfall	Rain Gauge	Millimetres
Speed of wind	Anemometer	Kilometres Per Hour
Direction of wind	Wind Direction Indicator	Direction shown by the arrow
Clouds	By observation	-

Assignment

According to your teacher's instructions, prepare a report about the weather conditions in the immediate surroundings of your home/school, using the data on weather gathered using equipment and by observation.

With the knowledge about the weather,

- You can plan your day to day activities properly.
- Damages to life and property can be prevented as information about the areas with threats of cyclones, floods and land slides as well as periods of lightning and thunder are informed beforehand.
- Fishermen and farmers will be able to engage in their activities successfully.

Activities

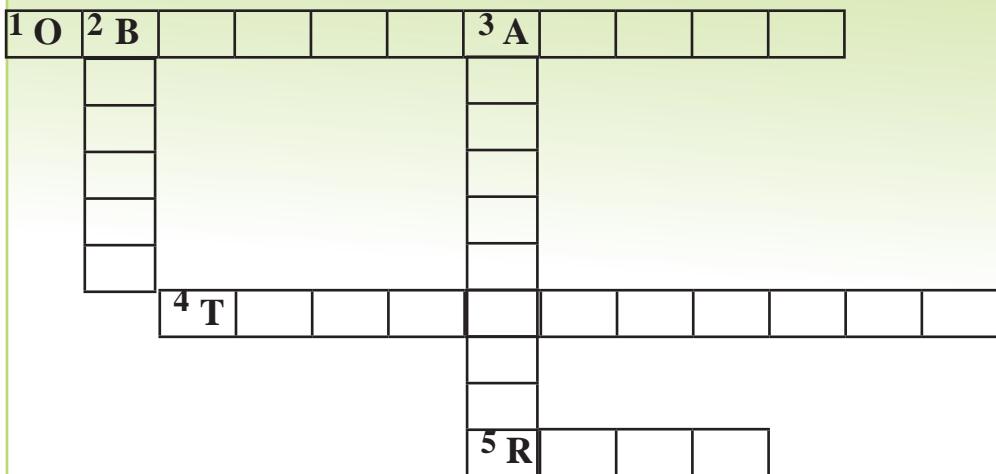
1. Write five advantages of knowing the weather conditions in your immediate surroundings.
2. If unfavourable weather conditions prevail in your area, discuss with your teacher and present your views as to how they may affect human activities.
3. Fill in the following cross-word puzzle with the help of the given clues.

Across

1. You can get to know about the nature of the clouds by doing this.
4. A main weather element.
5. Condensed water vapour falls to the earth as this.

Down.

3. The speed of the wind is measured with this equipment.
2. The wind that blows mildly and softly.



Assignment

Pay your attention to the weather forecast presented on television or on any other media during a week and be alert to see whether there are changes of weather occurring as stated by media. Keep records of them.

Landscape of the Immediate Surroundings of the School (Sketch Map)

The landscape of the immediate surroundings of the school constitutes various geographical features. They can be categorized as natural features and man made features.

Geographical Features

- Highlands
- Gardens
- Buildings
- Streams
- Cultivated lands
- Forests
- Roads
- Rivers
- Playgrounds
- Low lands

Activity

Categorize the geographical features given in the box into natural and man-made features.

The immediate surroundings of your school may be urban or rural. Schools are located in various environments such as mountainous, coastal, cultivated areas and areas close to rivers and tanks.

Figure 1.3 shows a landscape of the immediate surroundings of a school.



Figure 1.13
Landscape of the immediate surroundings of a school

Activities

1. Name the geographical features you can identify in figure 1.13.
2. Write five sentences about the landscape of the school according to the figure.

The sketch map of the landscape of the school is shown in figure 1.14.

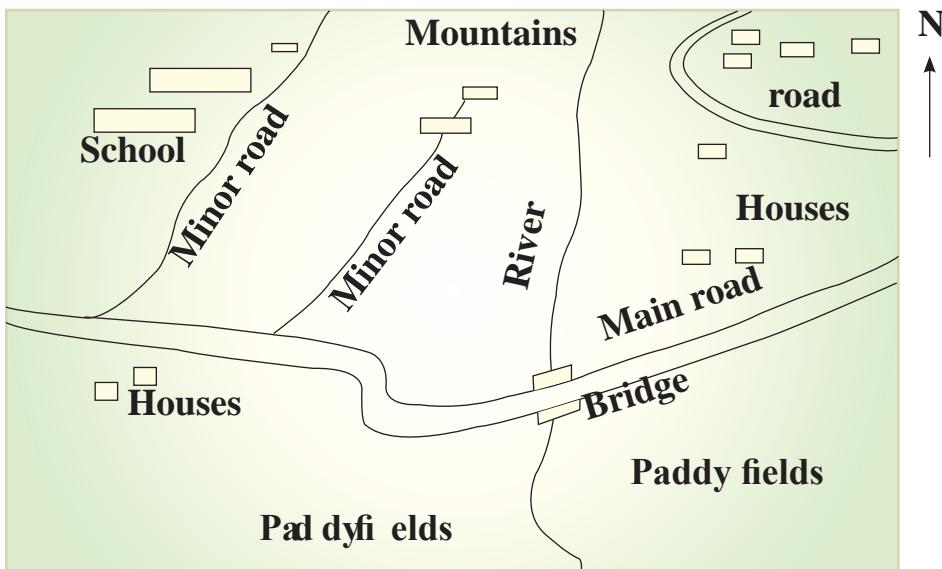


Figure 1.14
The sketch map of the landscape of the school

There is a clear difference between the picture and the sketch map.

- Some features in the picture are shown three dimensionally.
- Those features in the map are shown as plain figures.
- Shape, distance and location of geographical features can be shown clearly in a map than in a picture.

Activities

1. Using internet facilities or photographs, obtain the pictures of the landscapes of two urban and two rural schools.
2. Observe those landscapes and write three differences you can identify.

Assignment

Draw a sketch map of the landscape surrounding your school similar to figure 1.4. Consider the facts given below.

Facts to be considered when drawing the map,

- Observe the landscape of the immediate surroundings of your school.
- Note down the locations and the features of the mountains, rivers, streams, roads, cultivated lands and public buildings on a paper.
- After that, use colours and create a picture of the landscape.
- Draw the sketch map of the landscape according to the picture.
- When drawing the map, include specific features of the landscape (Rivers, streams, roads, etc.).
- Use symbols that are easy to indicate the information on the map.
- Indicate the North of the map.
- Consider the shape, size of the features of the landscape and the distance when drawing the map.
- Include a key in the map in order to make it easy to identify the features.

Glossary

• Location	- பிணிவீடு	- அமைவிடம்
• Administrative Division	- பரிபாலன கொவியாசய	- நிர்வாகப் பிரிவு
• Province	- பலூக	- மாகாணம்
• District	- இஸ்திக்கய	- மாவட்டம்
• Divisional Secretariat Division	- பூட்டீக லேக்டி கொவியாசய	- பிரதேச செயலாளர் பிரிவு
• Grama Niladhari Division	- ராம நிலதார கொவியாசய	- கிராம சேவகர் பிரிவு
• Plan	- டில ஸைஸ்மே	- திட்டப்படம்
• Direction	- இராவ	- திசை
• Compass	- மாலிமா யன்னய	- திசையறிக்கருவி
• Internet	- அந்தர்ப்பாலய	- இணையம்
• Weather	- காலஞ்சய	- வானிலை

● Mist	- மீடும்	- பனி
● Solar heat	- சூரியதாபை	- வெப்பம்
● Temperature	- உறுதீச்சுவை	- வெப்பநிலை
● Rainfall	- வருதாபதினாய்	- மழைவீழ்ச்சி
● Water vapour	- தலைவாதீப்	- நீராவி
● Evaporation	- வாதீகரணம்	- ஆவியாதல்
● Condensation	- சுதானிலுமினம்	- ஒடுங்குதல்
● Winds	- சூலம்	- காற்று
● Cyclones	- சூலி சூலம்	- குறாவளி
● Mild winds	- மாதிரி சூலம்	- மென்காற்று
● Storm	- சூரி சூலம்	- கடுங்காற்று
● Clouds	- வலூகுலி	- முகில்
● Thermometer	- உறுதீச்சுவைமானம்	- வெப்பமானி
● Rain Gauge	- வருதாமானம்	- மழைமானி
● Wind direction indicator	- சூலம் டிஙா டிரைக்கய	- காற்று திசைக்காட்டி
● Anemometer	- அனிலமானம்	- காற்று விசைமானி
● Wind speed	- சூலங்கு வேயை	- காற்றின் வேகம்
● Landscape	- ஒரு டிரைனம்	- நிலக்காட்சி
● Geographical features	- ஒரு கோரையை கூக்குதல்	- புவியியல் அம்சங்கள்
● Three dimension	- திட்டமான சீவரைப்பய	- முப்பரிமாணம்
● Transpiration	- உற்சுவேவிடுமானம்	- சுவாசித்தல்
● Precipitation	- வருதாமானம்	- மழைவீழ்ச்சி
● Surface runoff	- மனுப்பு கலாயாம்	- கழிவு நீரோட்டம்

(அப்படியும்)

2

Nature of the Land in the Immediate Surroundings of the House

The building in which you live with your parents and other family members is called the house. Most probably, your house may be located in an urban, estate or a rural environment with physical features such as highlands, coastal belts, plains or lowlands, slopes, rivers and forests.

The objective of this chapter is to study the nature of the land, plant and animal diversity and the activities of the community in the immediate surroundings of your house.

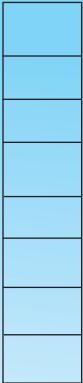
Observe the houses located in different environments in figure 2.1.



Figure 2.1
Houses located in different environments

Activities

Study the figure 2.1 and do the following activity.

- Match the number of the picture with the caption given below and write the correct number in the relevant box provided.
 - The house located in a rural environment.
 - The house located in a coastal environment.
 - The house located in an estate environment.
 - The house located on a highland.
 - The house located on a plain.
 - The house located on a slope.
 - The house located in an urban environment.
 - The house located in a slightly hilly land.
- Write the features of the lands in which those houses are located and write the advantages and the disadvantages of those features in the following grid.

Nature of the land in which the houses are located	Features	Advantages	Disadvantages

- Observe the nature of the immediate surroundings of your house and mention the features you see.

Assignments

- Select a group of students from your class. Find information about the nature of the land of the immediate surroundings of their houses and identify the variety of lands.

Name	Plains	Coastal areas	Highlands	Areas with slopes
Kamal				

- Discuss the advantages and the disadvantages of living in such an environment and present them to the class.

Wherever your house is located, it is your duty and responsibility to protect the land. Even when beautifying the environment around the house, it should be done carefully. The land should not be misused.

Plant and Animal Diversity

Due to plant and animal diversity, different environments are created in the immediate surroundings of the house. Diverse kinds of plants and animals exist in various eco-systems in Sri Lanka because of the nature of land and climatic conditions. Plants are very useful for the existence of living beings. If you are living in a rural environment, you may find plants in abundance. Eventhough you live in an urban environment, you can beautify the immediate surroundings of your house by growing plants. When selecting plants, you should consider not only their beauty but also whether they are suitable for the environment and the health of the man.

The species of animals that live facing the challenges of the hot sun, rain, threats from enemies and diseases are also a part of our environment. Animal community is also important for the existence of man.

You may have noticed some special kinds of birds in the environment of your house during certain periods of the year. Some species of birds are found only in a particular period. The singing of the koha bird or the Asian koel during the season of the Sinhala and Tamil New Year is familiar to you.

Sometimes, we see some birds migrating to our country during the winter season as they are unable to bear the coldness there. Those birds are migrant birds. Indian Pitta, Paradise fly catcher (*Sudu Redi Hora*) and *Sivuru Hora* are examples for migrant birds.



Figure 2.2
Migrant Birds

Figure 2.3 shows the benefits we gain from plants and animals and their different effects on the environment.

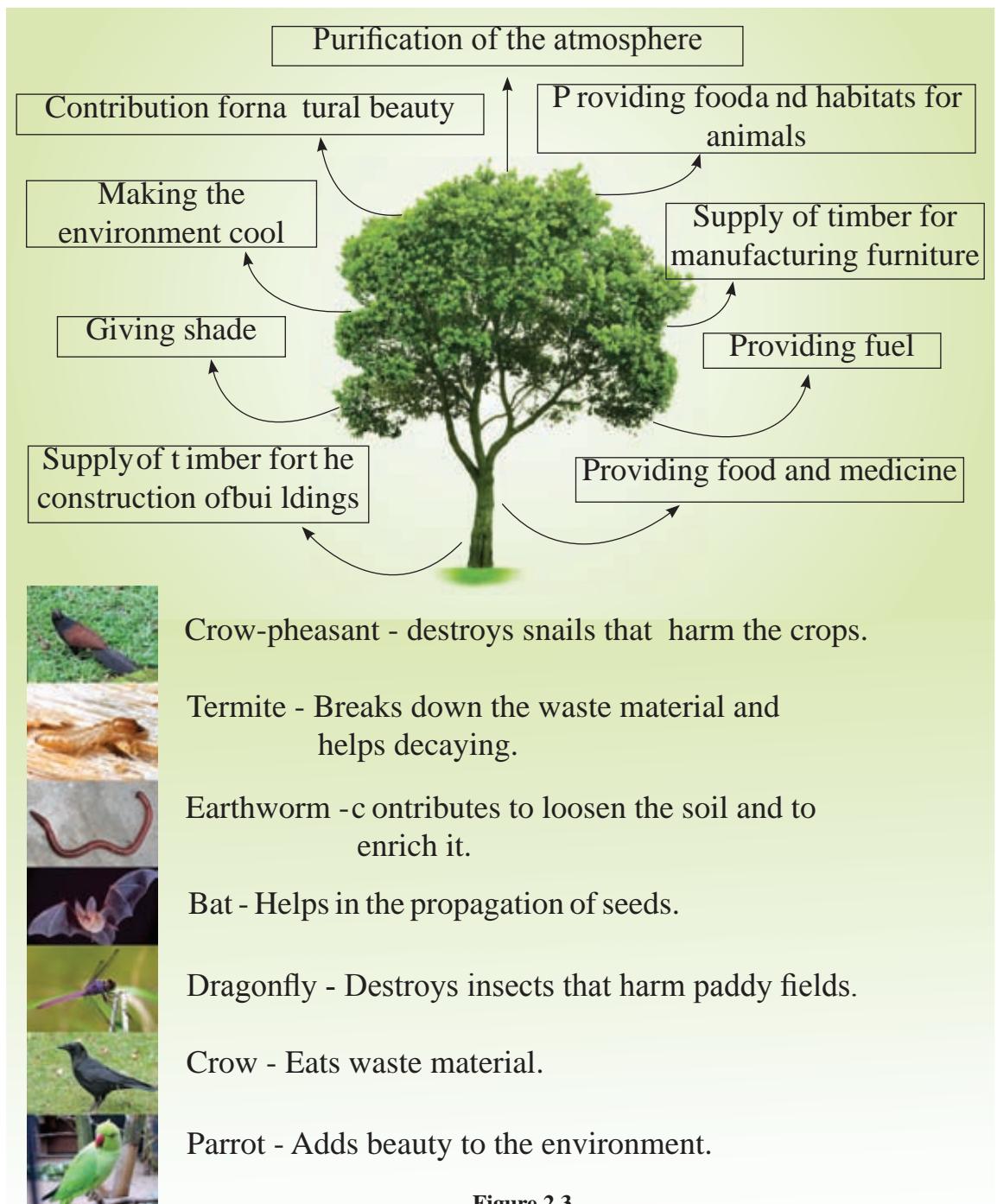


Figure 2.3
Effects and uses of plants and animals in the environment

Activities

- Enter the names of animals and plants you find in the immediate surroundings of your house in the following table.

Animals	Plants

- Put a '✓' in the relevant cage in the following table to identify the uses of the above plants. Several uses can also be obtained from the same plant.

Uses of plants					
Kind of plant	Food	Medicine	Making furniture	Ornaments	Other

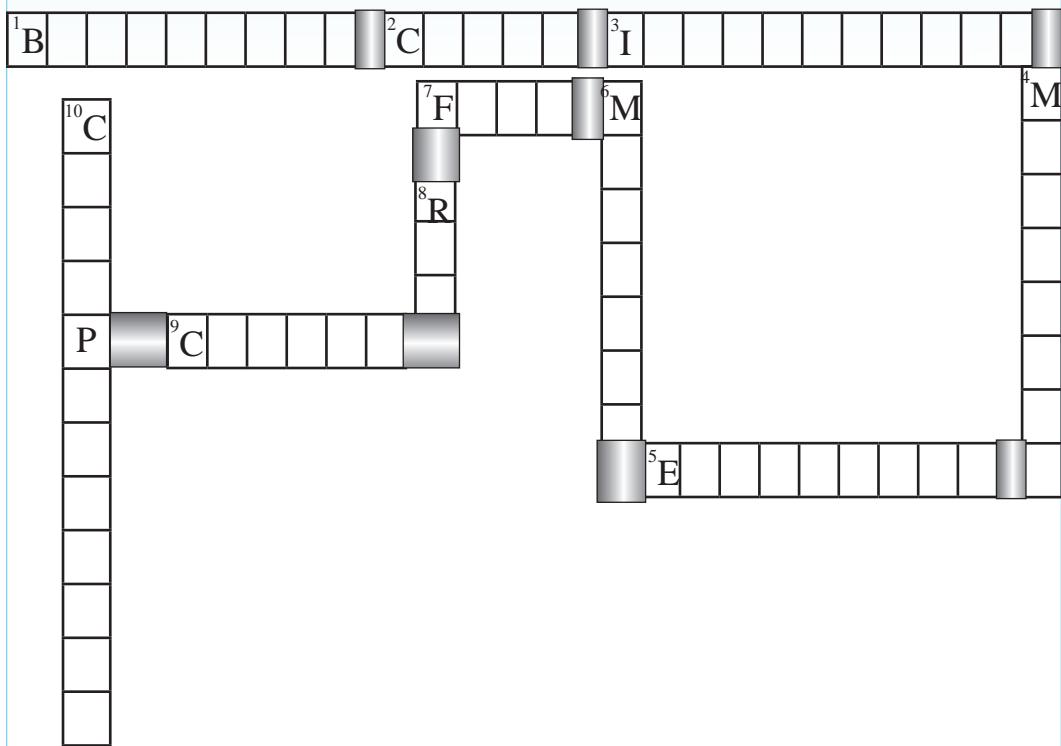
- Write three uses that man, animal and the environment can obtain from each plant.
- Classify the animals you find in these pictures, under the categories given in the following table.



1. Insects that help pollination.	
2. Animals that spread diseases to man.	
3. Nocturnal animals.	
4. Poisonous reptiles that harm man.	

5. Complete the cross-word puzzle with the help of the clues given.

1. Beautify the environment.
2. A poisonous snake.
3. A migratory bird.
4. Spreads diseases such as Dengue and Malaria.
5. Helps to enrich soil.
6. A reptile that is protected by law.
7. Forecasts the weather.
8. Spreads a disease called plague.
9. Helps paddy cultivation and brings an income to the house hold.
10. Destroys snails that harm crops.



Assignment

1. Contribute to protect the environment by growing plants in the immediate surroundings of your school/ house.
2. Take steps to grow various kinds of plants in your home garden or in the school garden on special days like your birthday, New Year day or on the National Tree Planting Day.

Human Activities in the Immediate Surroundings of Your School / House

Identification of the Community in the Immediate Surroundings of Your School /House

There may be families in your community that belong to various ethnic groups and religious groups. They may be Sinhala, Tamil, Muslim, Burgher or Malay. They may follow different religions such as Buddhism, Hinduism, Catholicism and Islam. There are traditions and rituals linked to those ethnic and religious groups. Although there are many differences, they are your neighbours. Therefore, we should learn to live with them in co-operation. For example working with unity in sports activities, in various associations and in welfare activities without considering the ethnicity and the religion.



Figure 2.4
Various religious symbols and religious institutions

Activities

1. Study figure 2.4 and identify the religions shown in those pictures. Complete the following table including the festivals related to those religions.

Religions	Religious festivals
eg :- Buddhism	Wesak, Poson

2. Mention the ethnic groups in the area where your home is located and their religions.
3. Give three examples to show that you work in co-operation with your neighbours during national and religious festivals.
4. Name three associations or clubs established for the development of the community in your area. Mention two activities done by each.
5. Draw a picture of an occasion where the communities of your area work together to develop the area.

Assignment

Draw a picture depicting festivals of ethnic and religious groups and display it in your classroom.

Economic Activities of the People in the Immediate Surroundings of Your School

Economic activities of the area depend on the resources found in the area. Among them agricultural, industrial and service sectors play a major role.

Agricultural Activities

Fishing industry, livestock farming and cultivation of crops are carried out under land utilization in different parts of Sri Lanka. Various parts of our country consist of different topographical and climatic features. Accordingly, specific agricultural activities are conducted in those areas. See figure 2.5.



Figure 2.5
Specific agricultural activities particular to different areas and crops cultivated

People in your area may have cultivated various crops according to the nature of the land. For example, cultivation of coconut on the plains, paddy cultivation in river valleys, tea and rubber cultivation in hilly areas.

If your area is located close to a sea, a river, a reservoir or a tank, fisheries industry may be the main occupation of people. Similarly, there may be some people who engage in livestock farming like rearing of cattle, pigs or poultry as their occupation.

Activity

Name the crops cultivated in the immediate surroundings of your school/ home and the animals reared for livestock farming.

Assignment

1. Write the names of the cultivated crops and the crops that can be cultivated in your home garden and school garden in the following table.

Cultivated Crops	Grains	Yams	Vegetables	Fruits	Other
Crops that can be cultivated					

2. Write three instances where you can contribute to the cultivation of crops in your home garden or your school garden.

Industrial Activities

Apart from the agricultural industry, there may be industries which use raw materials found in your area. For example, the furniture available in your home may be the products of the timber found in the immediate surroundings of your home. There could also be pots, tiles

and bricks made using clay and flower pots and bricks produced using cement.



Figure 2.6
Industries based on resources found in the area

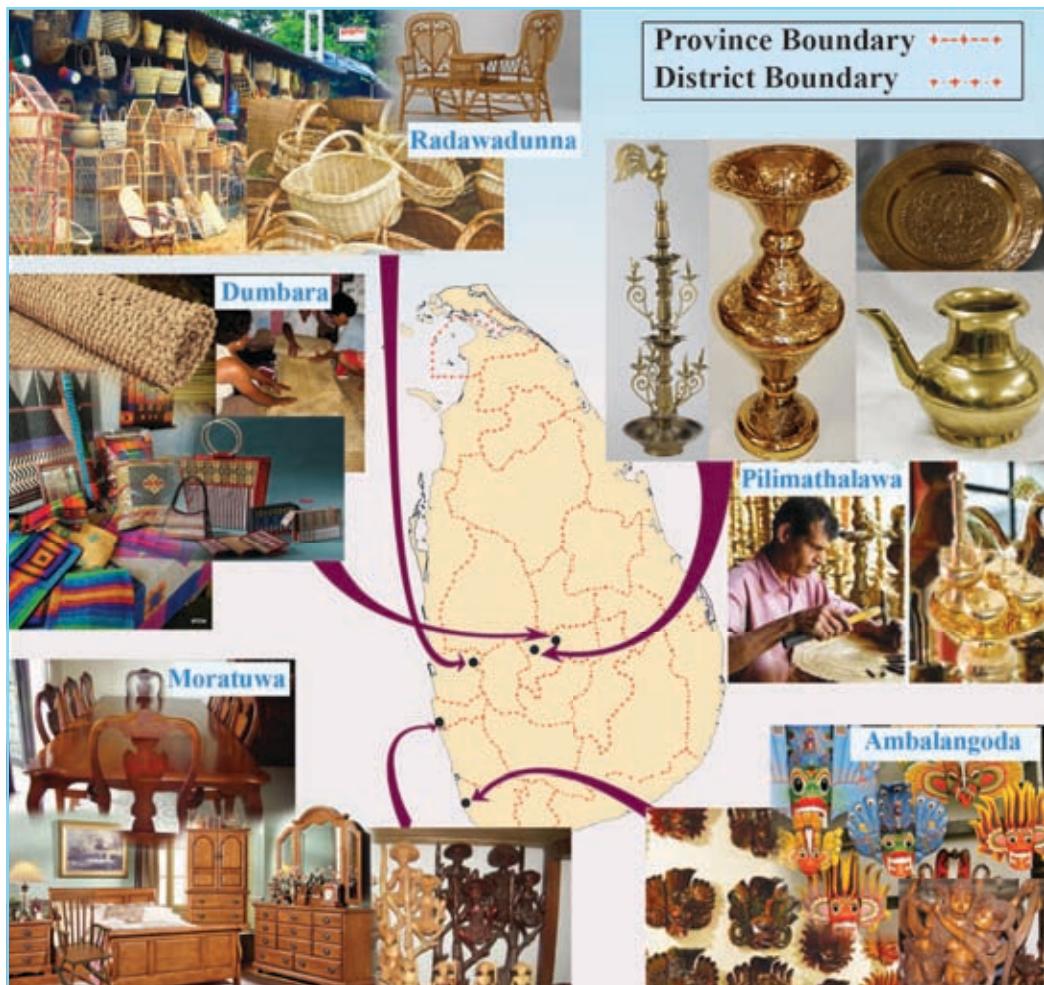
In most of the areas, various industries are carried out using the natural resources found in that area. Small scale domestic industries are also spread all over Sri Lanka. Production of sweet meats, products related to rice flour, sewing garments and coir products are examples for those industries.

Table 2.1

Industries based on traditional technological skills

Industry	Area
Furniture	Moratuwa
Masks	Ambalangoda
Brassware	Pilimathalawa
Cane products	Radawadunna
Mats	Dumbara

There are places which are famous for industries based on traditional technological skills in our country. See Table 2.1.



Map 2.1
Location of several industries based on traditional technological skills

Activities

1. Name three industries established in your area. Mention the benefits your area has received from them.
2. Match and re-arrange the information given in Table 2.2 to indicate the location of each industry according to the area, district and the province.

Table 2.2

Industry	Area	Province	District
Masks	Pilimathalawa	Southern	Galle
Brassware	Ambalangoda	Central	Kandy
Mats	Bangadeniya	North Western	Puttalam
Tiles and Bricks	Dumbara		

Assignment

Complete the following table with the industries that can be conducted based on the natural resources available in your area.

Natural resources	Industry

Services

There are many economic activities found in the immediate surroundings of your school and home. The services provided by the institutions are also important. There are services such as health, education, postal, transport, banking and security in your area as well as in other areas. Several such services are shown in figure 2.7.

Some of these services are provided by the government free of charge and some are provided by the private sector.

There are services provided by the government at a concessionary price too. Issuing season tickets in transportation and providing medicines at a concessionary price at ‘Osu Sala’ are examples.



Figure 2.7
Various services

These services are important for the people in the area to maintain their day to day living.

Some people in your area may be engaged in providing these services. If they are engaged in agricultural, industrial sectors or providing a service utilizing their manual labour, they render a great social service. Similarly, people who are engaged in various professions contribute in many ways that are possible for them to build the society.

Activities

1. Write down different services you find in your area and mention two activities carried out by each of them.
2. Write three services you enjoy as a school student.
3. Write down your duties towards the country as you enjoy those services.

Glossary

• Environment	- பரிசுரய்	- குழல்
• Nature of the land	- ஓடுமீன் சீவுகளுடைய	- நிலத்தின் இயல்பு
• Observation	- தீர்க்கீங்கூடிய	- அவதானித்தல்
• Human environment	- மானுத பரிசுரய்	- மனித குழல்
• Physical environment	- வெள்ளிக் பரிசுரய்	- பெளதிகச் குழல்
• Plant diversity	- ஈாக விவிடத்துடைய	- தாவர பல்வகைமை
• Animal diversity	- சுதாந்தில் விவிடத்துடைய	- விலங்குப் பல்வகைமை
• Community	- ஒரூப்பு	- சமூகம்
• Coastal belt	- வெரல் தீர்	- கரையோரம்
• Plains	- தேநிடலா	- சமவெளி
• Slopes	- ஒடுவிடி	- சாய்வுகள்
• Mountainous lands	- கல்லாக்கர வீலி	- உயர் நிலம்
• System	- பட்டினிய	- தொகுதி
• Climatic effects	- மேற்கூரைக் காலபோடி	- காலநிலைத் தாக்கங்கள்
• Organisms	- தீவின்	- அங்கி
• Rural environment	- இடமிய பரிசுரய்	- கிராமச் குழல்
• Urban environment	- நாட்டிக் பரிசுரய்	- நகரச் குழல்
• Animal community	- சுதாந்தில் ஒரூப்பு	- விலங்குச் சமூகம்
• Migrant birds	- சுங்காரக பக்கின்	- இடம்பெயர் பறவைகள்
• Birds species	- ஓராண்டு விண்ணப்ப	- பறவைகளின் இனங்கள்
• Atmosphere	- வாய்மேல்லய	- வளிமண்டலம்
• Waste	- அபடுவு	- கழிவு
• Seeds	- வீத	- விதை
• Insects	- கூத்தின்	- பூச்சிகள்
• Pollination	- பராட்டுக்கூடிய	- மகரந்தம்
• Reptiles	- மீறாக்கின்	- ஊர்வன
• Natural beauty	- சீவுகளுடைய சௌந்தரியம்	- இயற்கை அழகு
• Soil conservation	- பாங்கு சீர்க்கீங்கூடிய	- மட்பாதுகாப்பு
• Coexistence	- சுதாந்தில் வாழும்	- சுதாந்தில் வாழும்

- Ethnic group - சினலர்கள் - இனப்பிரிவு
- Occupation - தீவனேப்பாய் - தொழில்
- Economic activities - ஆர்டீக் கல்ழிகள் - பொருளாதார நடவடிக்கைகள்
- Agricultural activities - கால்கார்மிக் கல்லிகள் - விவசாய நடவடிக்கைகள்
- River valley - கங் மீறியால்த - நதிப் பள்ளத்தாக்கு
- Wet zone - நெத் கலாபய - சுரவலயம்
- Dry zone - வீயல் கலாபய - உலர் வலயம்
- Intermediate zone - அதரமேட் கலாபய - இடைவலயம்
- Informal - அவி஡ிமத் - முறைசாராத
- Raw materials - அமூல்வா - மூலப்பொருட்கள்
- Technological skills - கிள்ப ஐநாய - கலைஞரானம் தொழில்நுட்பம்

3

Good Maintenance of the Immediate Surroundings of Your Home

It is essential to maintain the immediate surroundings of one's home well to lead a healthy life. The basic components of the immediate natural surroundings of your home are land, water, soil, plants, animals and the atmosphere. When man develops his knowledge, his influence towards the basic components of the environment too increases. As a result of this, there may be various problems arising in the immediate surroundings of your home. Therefore, it is your duty to contribute to the conservation of the environment, by keeping the immediate surroundings of your home in a healthy condition.

The main objective of this chapter is the identification of the basic natural components of your immediate surroundings and to give you an understanding about the proper maintenance of it.

Land

Figure 3.1 shows how the land which is a basic component of the environment, is utilized in various ways.

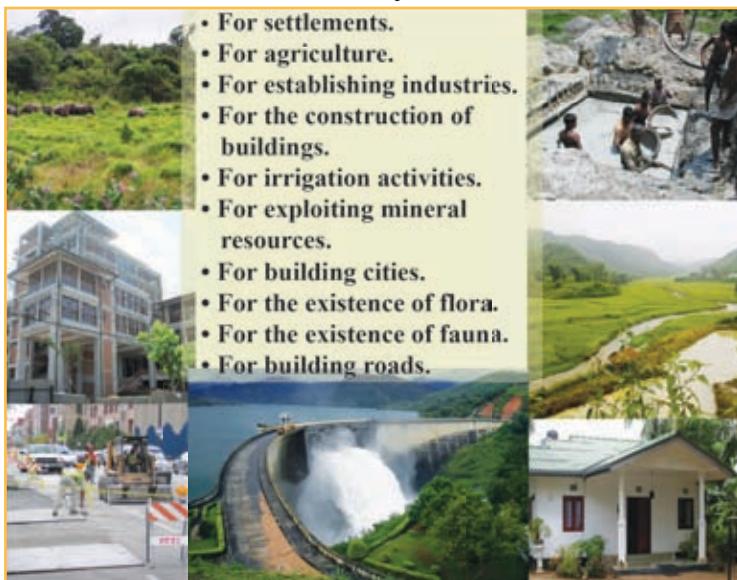


Figure 3.1
Land resource and its utilization

You can maintain the immediate surroundings of your home/school well, if you prepare the home garden and school garden according to a plan and use them properly.

Pay regular attention to the following facts regarding the proper use of land

- Find the places where soil erosion occurs and grow cover crops, build stone ledges or make drains.
- Cover the land with chaff, coir dust or straw.
- Dig a compost pit and make fertilizer with kitchen waste and dry leaves.

When the available resources are utilized in the immediate surroundings of your school/home, various changes may occur in the environment. Therefore, you must be careful to do those changes in a manner which will not harm the environment.



Figure 3.2
Utilization of land in a proper manner

Assignment

1. Select a portion of the land of your home or school and prepare a plan to use it in a proper manner.
2. Implement the plan with the advice of your teacher.

Figure 3.3 indicates how land is used in an improper manner and its effects.



Activities

1. Mention different ways of using the land in the immediate surroundings of your home.
2. Mention three harmful effects of the use of land in that place and suggest steps that can be taken to minimize them.

Water

Water is a natural resource which is essential for the existence of living beings. Water is used for various purposes. Figure 3.4 indicates instances where water is used for different purposes.



Figure 3.4
Various occasions where water is used

Activities

1. Observe figure 3.4 and mention the occasions where water is used.
2. Mention the sources from which your householders obtain water to fulfil their needs.
3. State the occasions of water wastage with examples.

Figure 3.5 indicates ways of using water in an improper manner. Accordingly, various problems may occur due to water wastage.

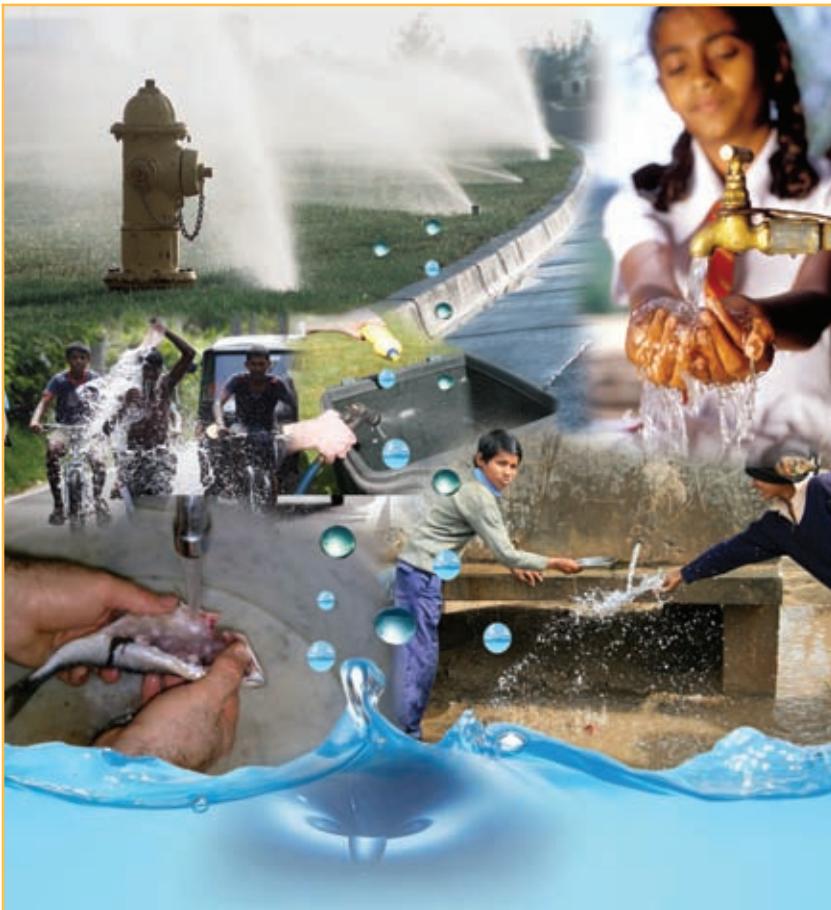


Figure 3.5
Occasions where water is used in an improper manner

Table 3.1

The problems of water shortage and methods of water conservation

The problems arising with water shortage	Methods of water conservation
<ul style="list-style-type: none">• Shortage of pure drinking water.• Threat for the existence of living beings.• Failure of agricultural and industrial activities.• Spread of diseases.• Soil infertility.• Failure in generating hydro electricity.	<ul style="list-style-type: none">• Prevention of misuse and wastage of water.• Consideration given to careful use of water.• Prevention of polluting drinking water.• Protection of the forest cover and motivation to plant trees.• Conservation of water resources and prevention of water pollution.• Making people aware of the importance of water conservation.• Using wastewater in domestic use for other purposes.• Training people to use rain water tanks.

Activities

01. Observe figure 3.6 and write three ways that cause water pollution.
02. Mention three harmful effects of water pollution.
03. Present four strategies that could be used to prevent water pollution.
04. Write two steps that could be taken to prevent improper use of water.

Figure 3.6 shows the occasions where water gets polluted due to various human activities.

Water Pollution



Figure 3.6
Occasions of water pollution in the immediate surroundings

Air

Air, as well as water, is an important factor for our survival. Among the gases in the atmosphere, both oxygen and nitrogen are important. Oxygen is required for breathing and nitrogen is needed for the growth of plants. The air around us gets polluted due to various human activities. Look at figure 3.7. Accordingly, the results of air pollution affect man as well as animals and plants in a harmful manner.

Air Pollution



Figure 3.7
Occasions of air pollution

Activities

01. Observe figure 3.7 and name the instances where air pollution occur.
02. Mention the difficulties you have to undergo when you breathe polluted air.

Effects of Air Pollution

Two harmful effects due to air pollution are mentioned below.

1. Diseases related to the respiratory system.

- Cough
- Lung cancer
- Catarrh
- Asthma
- Severe headache

2. Occurrence of acid rains.

- Water pollution.
- Destruction of aquatic organisms.
- Destruction of forests.
- Damage to soil.

Assignments

01. Complete the following table with the information related to human activities that cause pollution of land, water and air in the immediate surroundings of your home and school.

Components of the natural environment	Irregular human activities	Effects of these activities	Steps that could be taken to minimize damage/pollution
Land			
Water			
Air			

02. Design posters on the theme “Prevention of pollution of air, water, land and conserving them” and display them in the school premises.

Energy

We use various sources of energy to fulfil different needs, from the moment we wake up in the morning. Accordingly, energy helps us to fulfil various tasks like preparation of food, cleaning, for the use of communication devices, lighting up and transportation. The sun is the basic source of all the energy sources we use.

In ancient times, man used his manual power but later, he got the support of animals to do various activities. Man and animals get strength to do these activities from food. Machinery obtains the necessary power from fuel, electricity or from other sources.

Reasons for the increasing demand for energy

- Increase in population.
- Increase in consumer needs.
- Progress in the industrial activities.
- Development of transportation.
- Improvement of living standards.

Hydro-electricity, mineral oil, natural gas, solar power (solar cells) and firewood are the energy sources that can be used for various household purposes. You should utilize them efficiently, systematically and economically when fulfilling the needs at home.

When you use power at home,

- Switch on the bulbs only at the necessary place and time.
- Use more efficient electric bulbs like CFL, (Compact Fluorescent Lamp) and LED (Light Emitting Diode).
- Do not keep the door of the refrigerator opened for long. The number of times it is opened should also be limited.
- Iron all the necessary clothes whenever possible at one time.
- Use firewood-hearths that do not waste heat.
- After cooking, switch off the cooker or put out the hearth (firewood hearth).
- When using the gas cooker, use specific utensils suitable for the task.
- When using vehicles, plan and attend several tasks during a single journey for the economical use of fuel.

Figure 3.8 indicates different occasions where different types of energy sources are used.

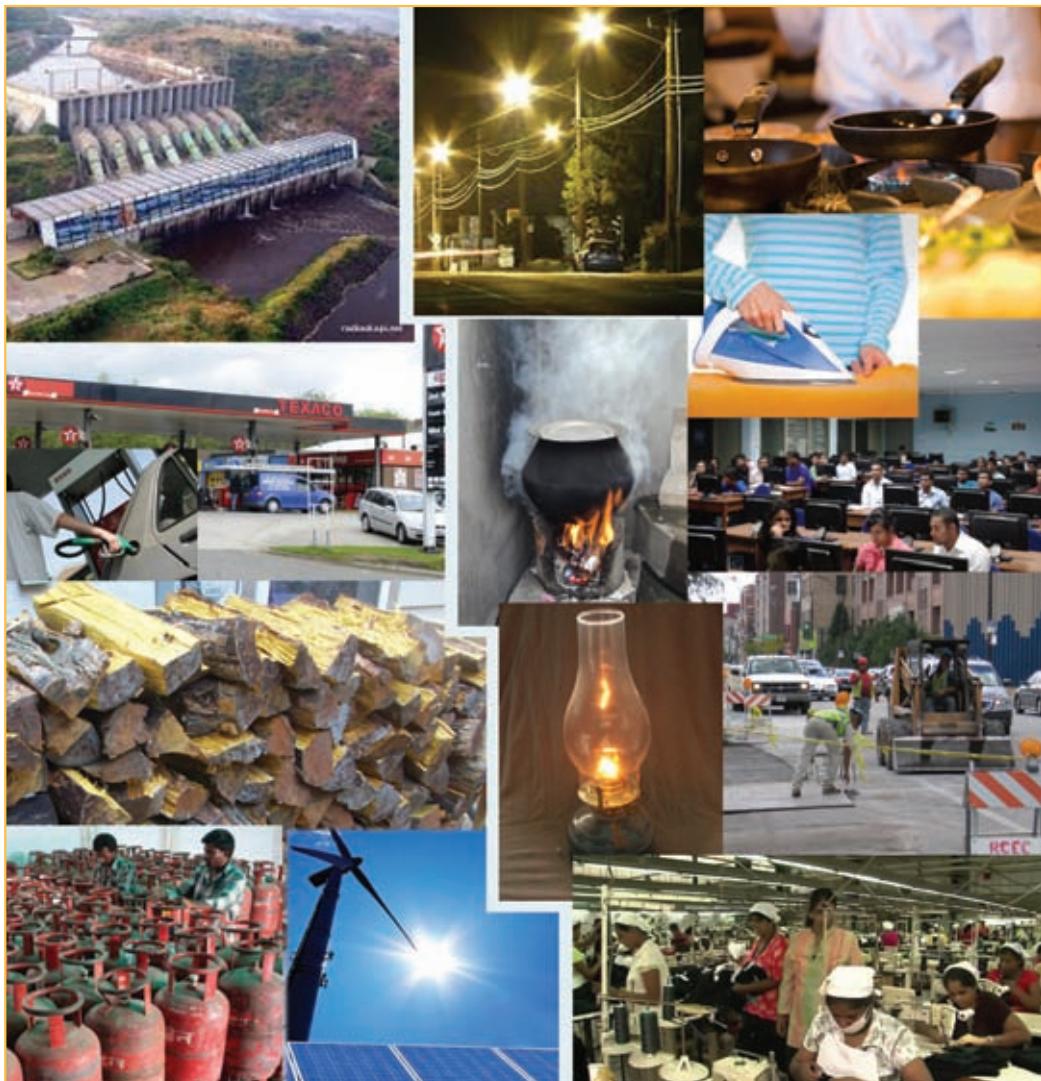


Figure 3.8

Different types of energy sources and occasions where they are used

Activities

01. Write the instances where energy sources shown in figure 3.8 are used.
02. Name the energy sources used in your home.
03. Mention two occasions of energy wastage.

Economical use of energy sources

The light we get from a bulb of 60W is provided by a CFL bulb of 11W produced according to the accurate standard. We can save the power of 245W if we use five CFL bulbs of 11W instead of using five 60W bulbs.



Figure 3.9

Compact Florescent Lamp (CFL bulb)



Figure 3.10

Light Emitting Diode (LED bulb)

The efficient firewood hearth helps to cook fast, easily and safely with the use of less firewood.



Figure 3.11

An efficient firewood hearth

Bio-gas is known as an important alternative source of power which is used for energy needs. Figure 3.12 indicates a bio-gas unit prepared for domestic consumption of energy with a systematic management of waste material. The kitchen waste, plants like *salvinia*, *monochoria*, *gliricidia* which are found in the immediate surroundings of your home and small pieces of hay, liquid cow dung can be used for this purpose.

The efficient firewood hearth is used to cook meals quickly. You can get electricity needed for your home from this bio-gas unit. The waste that is removed from time to time too can be used as a rich manure for the vegetable plots in the home garden.

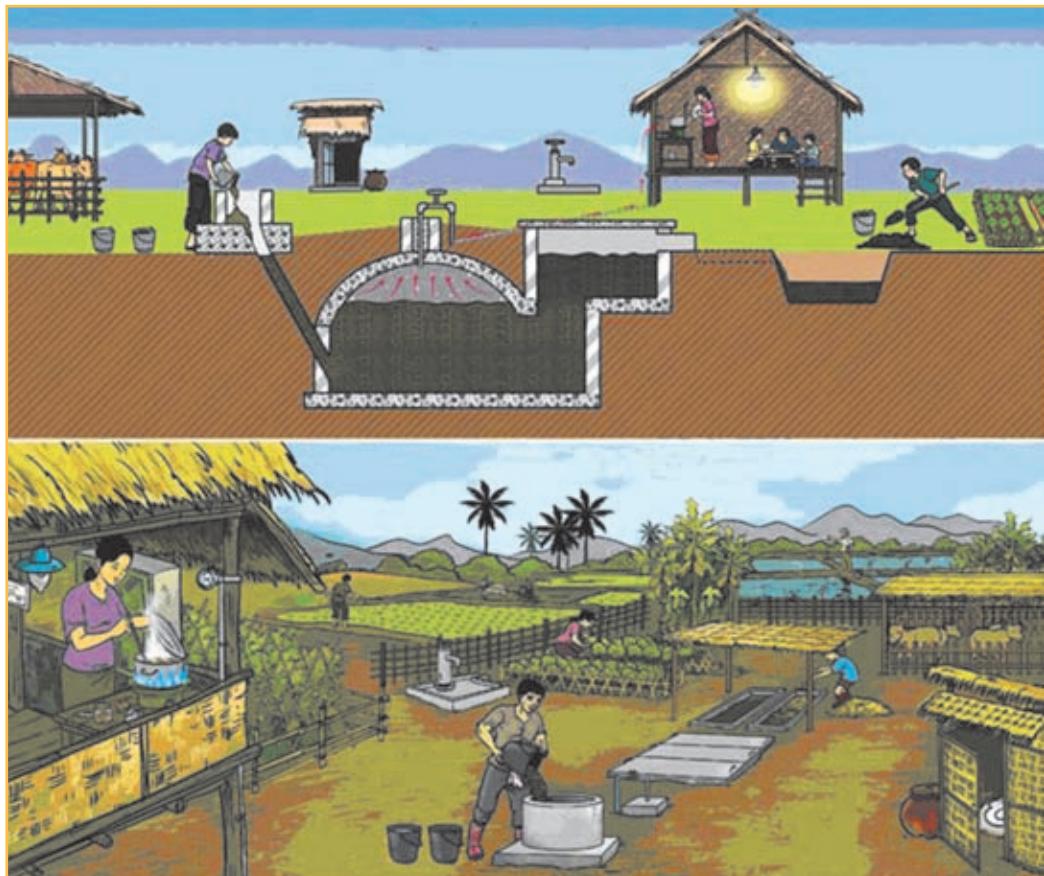


Figure 3.12
A bio-gas unit and its benefits

You can fulfil the energy needs of your house by obtaining solar power through solar cells which absorb solar energy. Although it costs high, solar power does not cause environmental damages when compared to other energy sources.



Figure 3.13
A Solar Panel

Activities

1. Read the following statements. Mark the correct statements with a tick (✓) and the wrong statements with a cross (x) in the relevant box.

01. Bio-gas can be generated using waste material.

02. Although we can obtain light to our houses from bio-gas, we cannot use it for cooking.

03. It is not suitable to put the waste matter removed from the bio-gas unit into the vegetable plots in the home garden.

04. Using one switch to light many bulbs is a way of conserving electricity.

05. Using Fluorescent Lamps (CFL) is a way to reduce the electricity bill.

06. We can get petrol, diesel, as well as gas from crude oil.

2. Name the alternative energy sources that can be used to provide power for electric bulbs, TV and the hearth.
3. Mention three methods which can be applied by you and your family members to save electricity in your home.

Assignment

Time	3.30 pm – 6.00 pm	6.00 pm – 9.00 pm	9.00 pm – 10.00 pm
	Number of lighted electric bulbs Duration for which the TV set was switched on Period during which the electric iron was used Duration for which the electric fan was used Period during which the equipment were used for preparation of food	Number of lighted electric bulbs Duration for which the TV set was switched on Period during which the electric iron was used Duration for which the electric fan was used Period during which the equipment were used for preparation of food	Number of lighted electric bulbs Duration for which the TV set was switched on Period during which the electric iron was used Duration for which the electric fan was used Period during which the equipment were used for preparation of food
Day			
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Saturday			
Sunday			

Use the table above and note down the occasions of using electricity in your home in the above table. Use the data collected and answer the following questions.

1. What is the electric appliance that is used most in your home?
2. Write the names of electrical appliances used for the longest period of time according to the order.
3. According to your note, what are the other factors you can present about the use of electrical appliances ?

4. What are the other types of energy sources used in your home?
5. What are your suggestions to save electricity at home?

Disposal of Waste Materials

Many things are disposed from our homes as well as from the immediate surroundings of home and school. These discarded things are called waste material. These waste material can be grouped as domestic, agricultural and industrial wastes according to their origin. Usually, we collect this waste material in a certain place in the home garden or put them into a pit or add them into a heap of garbage. Yet, the disposal of non-decaying waste material in this manner is harmful to the environment. The disposal of waste material has become a problem in the urban environment due to over population and limited space. The improper disposal of waste material causes pollution of air, water and land in the immediate surroundings of your home. Therefore, we have to pay attention to prevent the damages that occur with these activities. For this,

- Reuse - Reusing the items that can be used again and again.

Example - Textbooks, Packing boxes (like ice-cream containers), glass bottles etc.

- Recycling - Recycling the non - degradable materials like polythene and plastic. An extra income can be earned by collecting, sorting and handing them over to recycling centres or collecting centres and recycled materials are used to produce new products.
- Reducing - Minimizing the use of non- degradable items.

Example- Polythene packing, plastic items etc...

- Making different items using discarded waste material.

Coconut shells – spoons and curios

Electric bulbs – lamps

Pieces of cloth – door mats, cushion covers

- Preparation of a bio-gas unit / compost pit using kitchen waste, agro waste and dried leaves.

- Reduction of food waste by preparing the food in sufficient quantities and to cater to the appetite. It also helps to maintain the family budget in a better way.
- Proper disposal of waste material.



Figure 3.14
Proper disposal of waste materials

Activities

1. Prepare a list of waste material disposed from the immediate surroundings of your home. Categorize them according to the following table.

Domestic waste	Agro- waste	Industrial waste

2. Group them as degradable and non-degradable waste material.

- Mention the ways of earning an extra income by using them.
- Suggest the actions that can be taken to minimize the amount of waste material collected in the environment.

Assignment

Prepare a compost pit collecting the degradable waste material discarded from home and home garden and make use of the manure for house plants.

Glossary

- | | | |
|-----------------------------|---------------------------|---------------------------------------|
| • Mineral resources | - எநில் சுமிலதீ | - கனிய வளங்கள் |
| • Conservation | - சுரக்ஷனைய | - பேணிக் பாதுகாத்தல் |
| • Drought | - தியாய | - வரட்சி |
| • Floods | - காலதூர் | - வெள்ளப்பெருக்குகள் |
| • Soil erosion | - பாங்கு வாட்டாய | - மண்ணரிப்பு |
| • Air pollution | - வாயு டிதீனைய | - வளிமாசடைதல் |
| • Acid rains | - அமில வழை | - அமிலமழை |
| • Energy | - விலக்கிய | - சக்தி |
| • Communication | - சுன்னிவேட்டாய | - தொடர்பாடல் |
| • Solar power | - ஜிரை கூக்திய | - சூரியசக்தி |
| • Solar cells | - ஜிரை கோஷ | - சூரிய கலங்கள் |
| • Energy sources | - விலக்கி பூலவ | - சக்தி மூலாதாரங்கள் |
| • Bio Gas Unit | - சீல வாயு சீக்கய | - உயிரியல் வாயுப் பகுதி |
| • Recycling | - புதிலக்கிகரன் | - மீன் சமுற்சி |
| • Agricultural lands | - காஷி விமி | - விவசாய நிலங்கள் |
| • Water consumption | - தல பரிசௌர்த்தாய | - நீரின் நுகர்வு |
| • Sustainability | - திரசர பூவேந்ம | - நிலைபேண் |
| • Forest cover | - வன வழைம் | - காட்டுப்போர்வை |
| • Alternative energy | - விகல்லை விலக்கி | - பதிலீட்டு சக்தி |
| • Compact Fluorescent Light | - புஸ்தித புதிடிலை விழுலி | |
| | | பகுதி - கச்சிதமான ஒளியுள்ள மின்குமிழு |
| • Light Emitting Diode | - ஓலேக் விலோவுக் கியேவிய | - ஒளிரும் வெப்ப மண்ணலுக்கருவி |

Location of Sri Lanka

Sri Lanka is an island situated in the Indian Ocean to the south of India. It belongs to the continent of Asia, the largest continent in the world. Sri Lanka is separated from India by a narrow strip of sea. This strip of sea is 32 km in width and it is called the Palk Strait.

The main objective of this chapter is to provide an understanding of the location of Sri Lanka and the various influences caused due to its location.

Sri Lanka consists of its typical climatic, economic and cultural features due to its separate location in proximity to India. (Map 4.1)



Map 4.1
Location of Sri Lanka as an island close to India

How the location of Sri Lanka influences the climate

- Due to its location as an island, Sri Lanka receives rainfall throughout the year and the temperature is moderated as a result of the wind blowing across the Indian Ocean.
- Increase in temperature in the northern part of Sri Lanka is due to the influence of the dry winds that blow from the Indian sub-continent.
- Occurrence of rainfall due to the influence of monsoons.

How the location of Sri Lanka influences the economy

- Development as a centre in the East-West naval route since ancient times.
- Importance of the harbours of Sri Lanka in international trade.
- Development of the tourist industry due to the location of attractive places.
- Emergence of new economic patterns with the arrival of western nations.

How the location of Sri Lanka influences the culture

- Presence of various languages, religions and ethnic groups due to the mixture of different groups of people. For example, from India and Arabia.
- With the arrival of western nations, various cultural features of them were added to the society.

Activities

Study the map 4.3 and fill in the blanks with the correct words selected from brackets.

(Bengal, Indian, Mannar, Palk, Asian)

1. Sri Lanka belongs to the continent, the largest continent in the world.

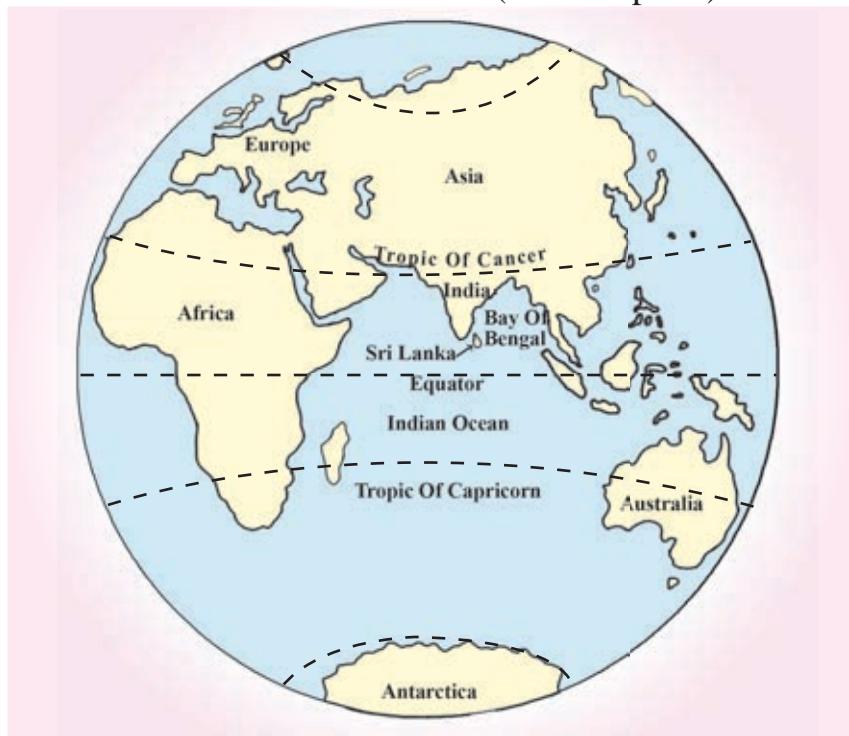
2. Bay of is located between Sri Lanka and India.
3. Sri Lanka is separated from India by strait.
4. Sri Lanka is located in the Ocean.
5. The sea area located in the North-East of Sri Lanka is called the bay of

Relative location of Sri Lanka

Identification of a country in relation to the location of surrounding countries, continents, seas and oceans is called the relative location.

Accordingly, Sri Lanka is located,

- to the South of the Asian continent.
- towards the North of the Indian ocean.
- to the West of South-East Asia and
- to the East of the African continent. (refer map 4.2)



Map 4.2
Relative Location of Sri Lanka

Activity

Observe the above facts with the help of the globe in your school and also with reference to an Atlas.



Map 4.3
Location of Sri Lanka in the world map

Activity

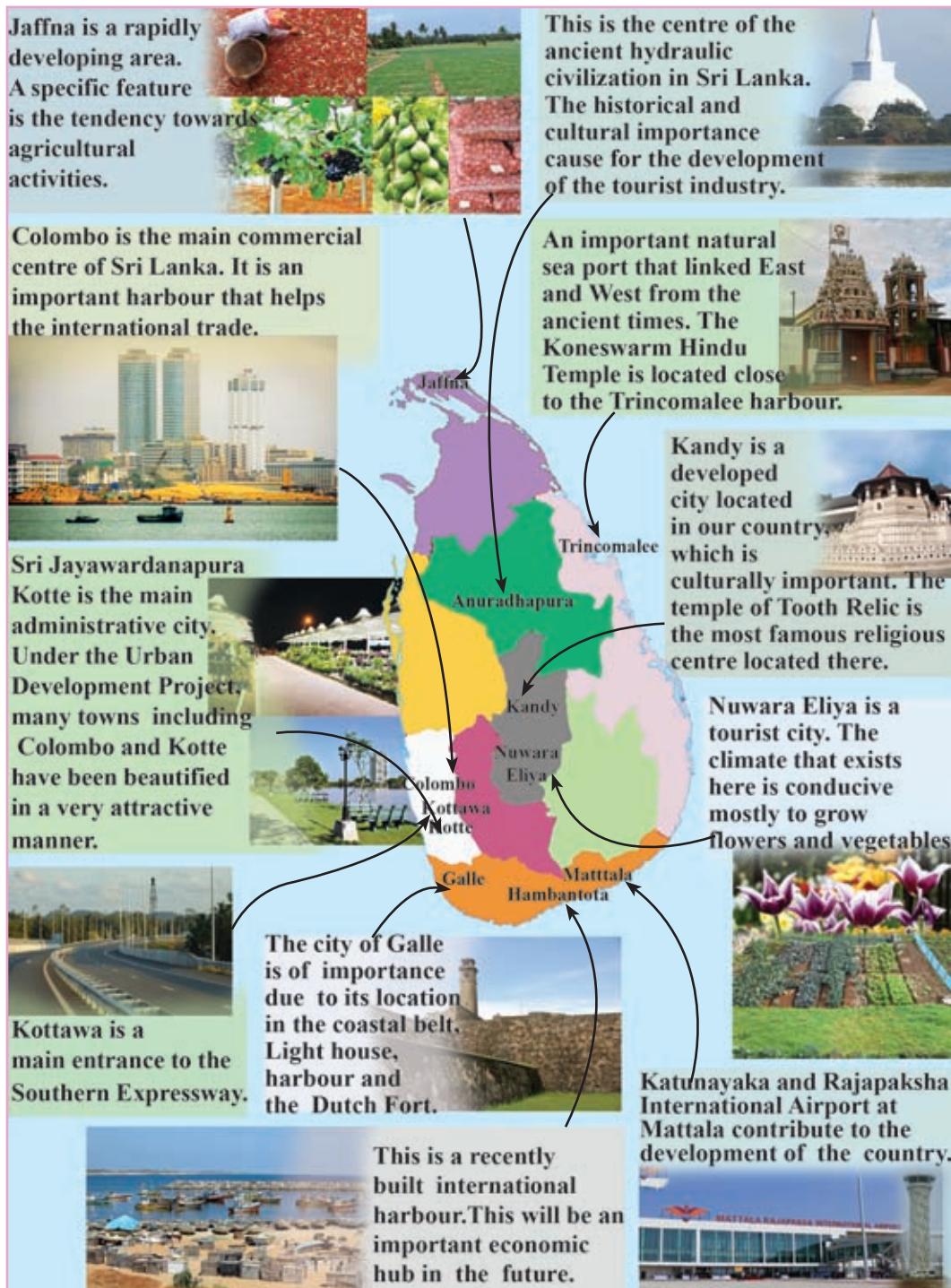
Mention the changes that occurred in the society due to the location of Sri Lanka in close proximity to India.

Important Places Located in Sri Lanka

At present, Sri Lanka is a rapidly developing country in South Asia. The progress in the social and economic sectors is the reason for this. Some outstanding development projects have contributed towards this progress.

- Building new harbours, new airports and expressways
- Urban development

The following map indicates a few economically, socially and culturally important places of Sri Lanka.



Map 4.4
Important places in Sri Lanka



Figure 4.1
Southern expressway



Map 4.5
Colombo - Matara, Colombo - Katunayake
expressways

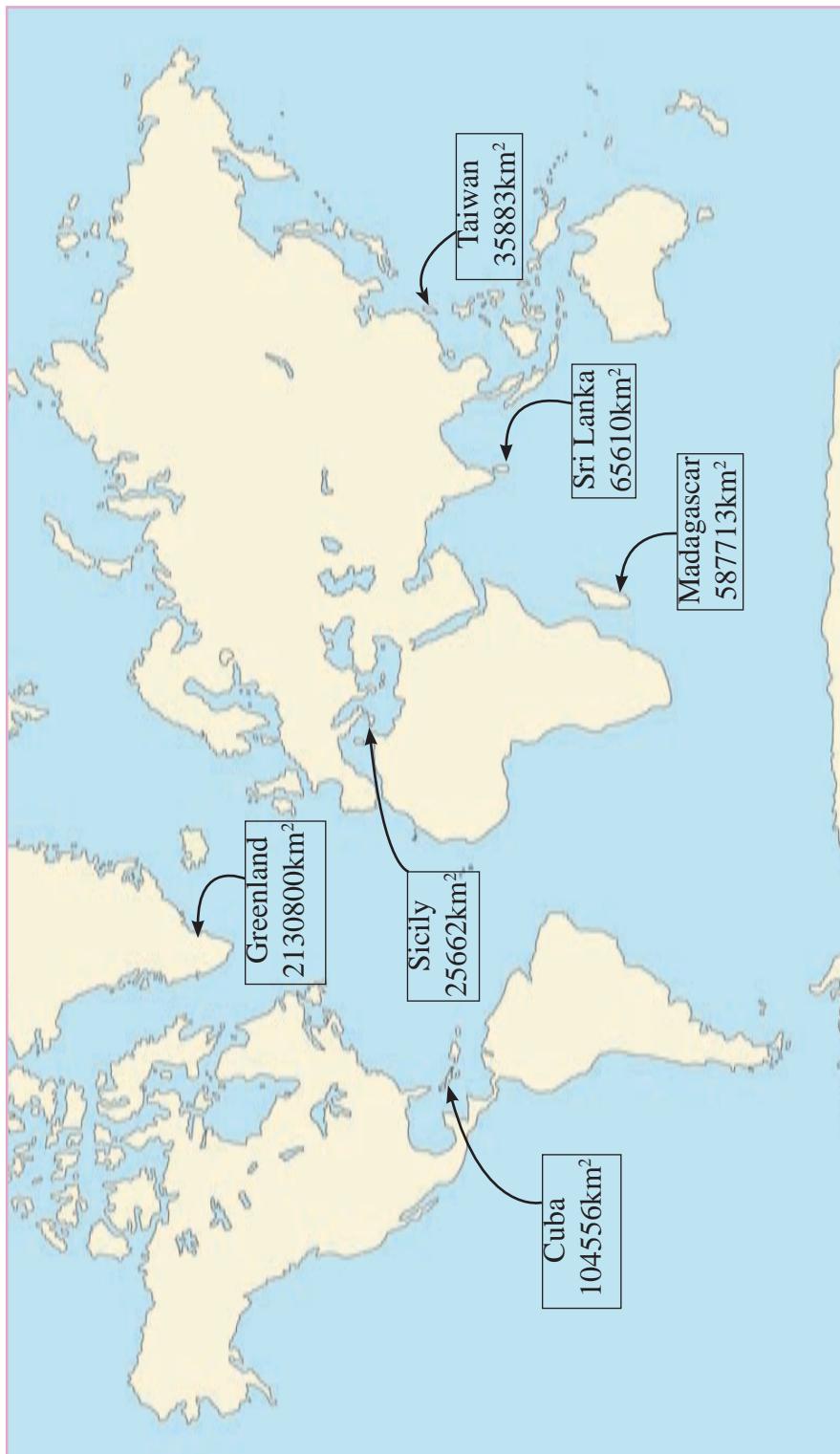
Source - Road Development Authority 07/02/2014

Activities

1. Mark and name the following places on an outline map of Sri Lanka.
 - The international airports at Katunayaka and Mattala.
 - The harbours at Colombo, Trincomalee, Galle and Hambantota.
 - The cities; Galle, Badulla, Ratnapura, Anuradhapura, Trincomalee, Kurunegala, Jaffna, Kandy and Colombo.
2. Write a short description on the topic “Rapidly Developing Sri Lanka”.

Other Islands in the World

There are many islands located in the world with various extents of land. Map 4.6 indicates a few such islands and the land area.



Source - <http://en.wikipedia.org/21/07/2014>

Map 4.6

Several islands in the world and their land area

Activities

1. Identify the islands in map 4.6 and mark and label them on a world map.
 2. Sequence the islands according to the extent of the land area. Mention the area of land in front of each island.

Assignment

Complete the following table with the help of the Textbook and an Atlas.

Name of the island	The ocean in which it is located
Japan	
New Zealand	
Maldives	
Iceland	
United Kingdom	
Seychelles	

Glossary

Island	- இல்லை	- தீவு
Relative location	- சூரியக் கூறு பின்தீவு	- சார்பமைவிடம்
Strait	- சுற்றுப் பாசு	- நீரிணை
Monsoon winds	- மேற்சும் வூடு	- பருவக்காற்றுக்கள்
Sub Continent	- ஒப்பு மூல்தீவு	- துணைக் கண்டம்
Migration	- சுயங்கிமலை	- இடப்பெயர்வு
Globe	- ஆட்ராக் கேர்லை	- பூகோளம்
Express ways	- அதிவேகப் பாதைகள்	- அதிவேகப்பாதைகள்
Centre	- கேந்திச்சீலிங்கம்	- மையம்
Hydraulic civilization	- வாரி ஜித்தீவு	- நீரியல் நாகரிகம்
Commercial centre	- வாணிப மதிச்சீலிங்கம்	- வர்த்தக மையம்
Economic centre	- ஆற்பிக் மதிச்சீலிங்கம்	- பொருளாதார மையம்
International harbour	- தொழிற்சாலை வருாய்	- சர்வதேச துறைமுகம்
Lighthouse	- பூதீபாராய்	- வெளிச்சு வீடு