SOCIAL SCIENCE

IV STANDARD

Term I



Think and answer

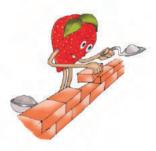
What these Icons stand for!



Choose the best option



Collection of data



Fill in the blanks



Gather informations from references

Point out



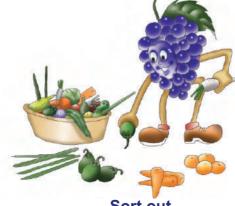
Say true or false



Think and write



Match the following



Sort out



Project work(or)Group work



WONDERS IN THE SKY

Hearing the voice of the postman, Divya came out and received the parcel from him.

Sir, post

It was a DVD from her uncle . She was very curious to know what the DVD contained.

She inserted the DVD into her laptop. The title of the DVD was 'The magical universe'

UNIVERSE

Universe is all that we touch, see, sense, measure or detect. It consists of all living things, stars, planets, galaxies, dust, cloud, light, time. Earth is a home to all living things. It is spheroid in shape. It is

surrounded by layer of gases called atmosphere.



Have you ever observed the sky?

Have you tried to count the stars?

STARS

Stars are huge luminous bodies. They have their own light and heat .They are made of hot gases and dust . The Sun is also a star . When you look at the sky at night, the stars appear smaller than the sun Why?

Do you know what makes these stars twinkle?

The light rays from the stars pass through the atmosphere, in a zig - zag line and thus the stars appear to twinkle.

PLANETS

Planets are celestial bodies which revolve around the Sun in elliptical paths called orbits. They do not have their own light but they reflect that of the Sun. Planets do not twinkle as they are closer to the earth

SATELLITES

Satellites are objects that go around a larger object such as a planet. The moon is the only satellite that goes around the earth, our planet. The other planets too have their own satellites.

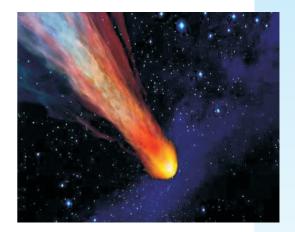
ASTEROIDS



Asteroids are also called as planetoids. These are big pieces of rock or rock and metal. They orbit around the Sun between Mars and Jupiter in their own elliptical orbit called the Asteroid Belt.

METEORS

Little pieces of rock and debris in space are called meteoroids. These meteoroids as they enter the earth's atmosphere get heated up due to friction and leave a trail of bright light and called meteors.



They are also called falling stars or shooting stars. Meteors that survive the journey through the atmosphere and hit the ground are called meteorites.

MOON

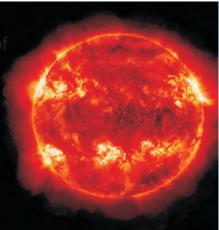


Moon is the natural satellite of the earth. It is made of rocks. It has no air. The surface of the moon has many craters and mountains. It does not have its own light and heat. It reflects the light of the Sun. It revolves around the earth in an elliptical orbit and it takes 27.3 days to complete one revolution. The gravity on the moon is lesser than that of the earth.

Chandrayan-1 was launched by India on 22.10.08 to probe the moon.

SUN

The Sun is the biggest star in our solar system. It is a bright star and is at the centre of the solar system. It is a big ball of fire and gives heat and light to the Earth. The light from the Sun gives energy and strength for things to grow. Without the light from the Sun the Earth would be a cold dark place. It also gives light to other planets of the solar system.



About three quarters of the Sun's mass consists of Hydrogen, while the rest is mostly Helium. Less than 2% of the mass is made up of , consists of heavier elements, including Oxygen, Carbon, Neon, Iron and others

LET US TRY AND FIND OUT —

Take a rope of 1 metre length. Tie a ball to one end. Then hold the other end and rotate the rope above your head so that the ball moves in circles. The ball is in continuous motion until you hold the end of the rope. Likewise, the Sun keeps the other planets intact because of its force of attraction.

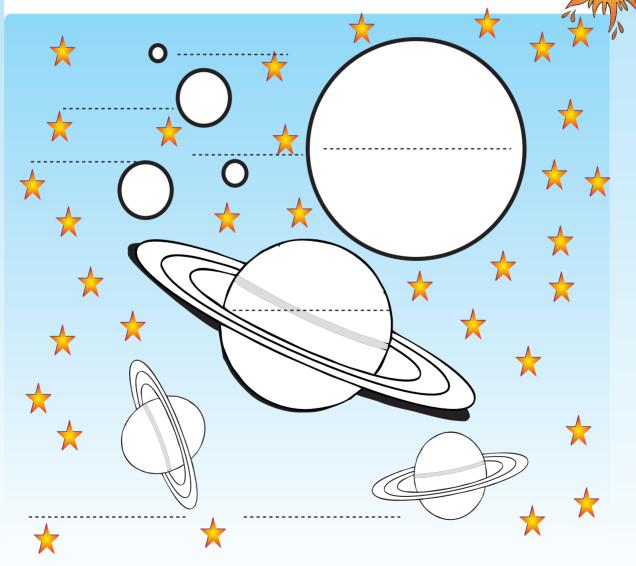
THE SOLAR SYSTEM

The Sun is at the centre of the solar system The planets, comets, meteors and satellites move around the Sun on a fixed path called an orbit. The Sun and its eight planets make up the solar system.

My Very Efficient Mother Just Saved Us Now



Look at the sentence, The starting letters of the planets are given in colour, With the clues given try and write the names of the eight planets and colour them.



1. MERCURY

This is the smallest and closest planet to the Sun. It takes only 88 Earth days to go round the Sun once. It has no satellites and no atmosphere.

2. VENUS

It is the second planet in the solar family. It revolves around the Sun from east to west. After the Sun and the Moon, Venus is the brightest natural object in the sky. It is also called the morning star or the evening star because on some days we can see it just before the sunrise or sun set.

3.THE EARTH



The third planet from the Sun is the Earth. It is the home to all living things as it fulfills their basic needs. The earth is neither too close nor too far away from the Sun . It supports life and hence called The Living Planet. The surface of the earth is made up of land and water. About 71% of the earth's surface is covered by water and 29% by land.

4.MARS

It is the fourth planet in the solar family. Inactive volcanoes, rocky deserts and ice covered poles were discovered on this planet. The minerals and the iron present in the soil in Mars give a red colour to this planet. It is a cold and dusty planet. It has 2 moons.

Collect articles and pictures related to space from the newspapers and make an album.

5.JUPITER

It is the fifth and the largest planet in our solar system. The surface of the planet is surrounded by dark red and yellow clouds made of gases and dust.The colour of the clouds depends on the gases.It takes 12 years to make one revolution. It has 16 moons.

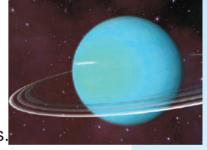
6.SATURN

Saturn is the sixth planet. It is a light planet, and mostly made up of helium and hydrogen. It is surrounded by gases, dust, rocks and icy boulders which make it look beautiful with its ring. For that reason, it is also known as 'The Ringed Planet'. It has 30 moons.

Galileo Galili was the first person to discover the rings around Saturn.

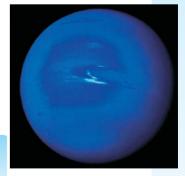
7.URANUS

Uranus is the seventh planet. Unlike the other planets it does not spin on its axis. It rolls around the sun.This planet is made up of hydrogen, along with methane and helium. It is bluish green in colour. The dust around it looks like a ring around it. It has 15 moons.



8.NEPTUNE

It is the eighth and the farthest planet. It appears blue like an ocean. The Romans named it after the God of the sea. It is made up of hydrogen, helium, water and methane. It has 13 known moons.



Do you know?

Pluto is not considered a planet. Find out why.

Watching all this through the DVD, Divya was amazed.She clearly learnt about the solar system .She started writing a thank-you letter to her uncle for sending her a DVD worth watching several times.

			90				
	EXERCISES	6	A				
I.CHOOSE TH	HE CORRECT ANSWER						
1	are luminous bodies.	Sec. 1					
a) stars	b) planets	c) moon					
2. Satellite that	t moves around the earth is	·					
a) Sun	b) Venus	c) moon					
3. There are	planets in the s	solar family.					
a) eight	b) five	c) ten					
4. Gas which is	s not present in the sun is_		_·				
a) methane	b) hydrogen	c) oxygen					
5. The largest	planet in the solar family is_		00				
a) Mars	b) Jupiter	c) Neptune.					
II.FILL IN TH	E BLANKS		The second				
1. The only pla	anet which is suitable for livi	ng things is		Y			
2. The Sun is	a ball of						
-	3. The planet that can be seen in the sky in the morning and in						
	is						
4. The surface	e of Mars is covered with		and dust .				
	THE FOLLOWING						
	planets in the solar family.		0				
	rs appear small?		ASIA .				
	rt note on meteors.						
		as the sun's light?					
4. Why is the light of the moon not as hot as the sun's light?5. How do planets remain intact in space?							
IV.ACTIVITIES	3						
1. Conduct a d	quiz programme on the topic	c 'Solar System'.	<u>م</u>				
	ures related to the solar sys	tem and paste 🐴					
them in you	ır scrap book.						

- 3. Make a model of the solar system with beads and balls
- 4. Ask the students to enact the features of the solar system by taking the roles of the planets.

IAL SCIENCE





Does it surprise you when I say that, while you study and play at school in the afternoon, children in America are having their breakfast, and children in Japan would have gone back home from school?



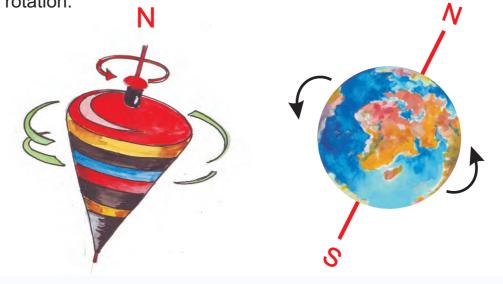
Different parts of the earth get the sunlight at different times. Do you know why? It is because of the Earth's movements.

They are

- 1. Rotation
- 2. Revolution.

ROTATION

The Earth spins about an imaginary line called the axis. The axis passes through the North pole and the South pole. The axis is tilted at an angle of 23½° to the vertical line. It takes 24 hours or one day for the Earth to complete one round. This movement of the Earth on its own axis is called rotation.



EFFECTS OF ROTATION ON THE EARTH

- 1. It causes day and night.
- 2. Earth rotates from west to east [anti-clockwise]. So places in the east experience the day first.
- 3. Since the Earth spins from west to east, The Sun appears to rises in the east and sets in the west. This gives us a sense of direction.

REVOLUTION

The Earth while spinning on its axis also moves around the Sun along a fixed path called the Orbit .The Earth takes 365¼ days or one year to go round the Sun once . This movement of the Earth is called Revolution. The orbit of the Earth around the Sun is elliptical (Oval shaped) in shape.



Purvika is three years old now. How many times do you think she would have travelled around the Sun?

EFFECT OF REVOLUTION ON THE EARTH

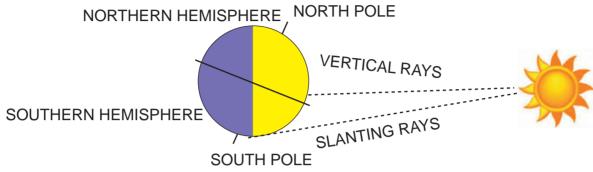
The major effects of the revolution is the Seasons that are caused on the Earth. It changes from place to place.



DO AND LEARN

You can track the changing seasons for yourself.

Note down the time of sunrise and sunset of your place every day for a month. Mark the time on a line graph. Are the days getting longer or shorter? Why ?



SEASONS

Generally we talk about four seasons – spring [flowering season], summer [hot season], autumn [fall] and winter [cold season]. The season changes once in three months.

SPRING

It is a pleasant season that comes between winter and summer. We can see the new leaves on the trees,the flowers are in full bloom. There is a promise of new beginnings and colour in the spring time air.



SUMMER



Summer is the hottest season among the four. During this season we have longer days.

What comes to your mind when you hear the word Summer?

Which season do you like the most? Why?

AUTUMN

Autumn is the season between summer and winter. The air begins to cool. The trees shed their leaves.This season does not occur in India because of its geographical location.



WINTER



Winter is the coldest season. Our winters bring us cool weather. During this season the days are short and the nights are long. Snowfall occurs in some countries and hilly regions.

SEASONS IN INDIA

India has only three predominant seasons. They are summer season, rainy season and winter season. 1.SUMMER SEASON



During summer many parts of India get extremely hot. Days are very hot and nights are warm. March, April and May are the summer months. 2.WINTER SEASON

The Indian winter in most parts of the country is usually mild and enjoyable when compared to the other countries of the world. November to February are the winter months. Some parts of our country like Ladakh, Kashmir and Himachal Pradesh gets snow fall during these months. In different parts of our State, we have vegetables and fruits that grow during this season.

Can you name some?

3.RAINY SEASON

During this season the north-east monsoon and the south west monsoon bring heavy rainfall to most parts of the country.

The longest day in the northern hemisphere-22nd June. The shortest day in the northern hemisphere-22nd December.

INFLUENCE OF SEASONS ON HUMANS



Our lifestyle changes according to the season. During summer, we like to drink tender coconut, fruit juice, ice apple (nungu) and wear cotton clothes We like to have hot steaming food and beverages in winter. During winter we wear warm wollen clothes.We use raincoats, gum boots and umbrellas

during the rainy season.

Do you know why?

The houses in the places which receive heavy rainfall and snowfall have sloping roofs.

INFLUENCE OF SEASONS ON PLANTS

Fruits,vegetables and flowers that are available in a particular season may not be available in the other seasons.

In which season fruits like mangoes and watermelon are available in abundance?_____

Are they available in winter also? Example: summer vegetable - drumstick summer flower - jasmine Find out the vegetables and flowers available in winter.

INFLUENCE OF SEASONS ON ANIMALS

Winters are extreme in the polar regions. In the Arctic, animals like whales move from North America to the coastal region of Gulf of California before winter starts to escape from the harsh weather.

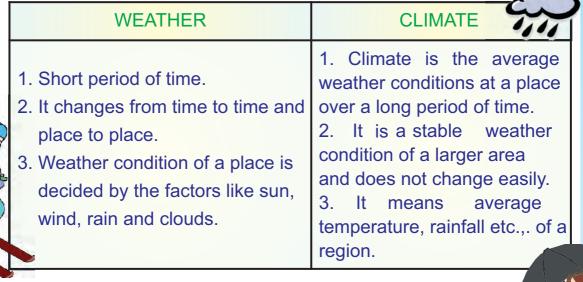




Similarly, birds like the Arctic tern move in flocks to places where the weather conditions are suitable. This movement is called migration.

The Polar regions remain frozen in winter. In the extreme cold condition food is scarce. So the Polar bears undergo long winter sleep called Hibernation. The excess fat stored in their body provides energy and helps them to survive during hibernation.

WEATHER AND CLIMATE



LET US FILL THE TABULAR COLUMN !

Ŋ		AVAILABLE IN ALL SEASONS	AVAILABLE IN A PARTICULAR SEASON	
	VEGETABLES			
	FRUITS			
	FLOWERS			SOC
10				C C



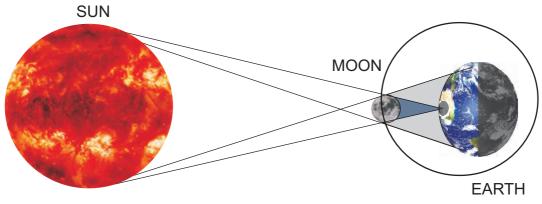
ECLIPSE

Eclipse is an astronomical event that occurs when one celestial object casts a shadow on another.

There are two types of eclipses.

THE SOLAR ECLIPSE (solar-sun;eclipse-hidden)

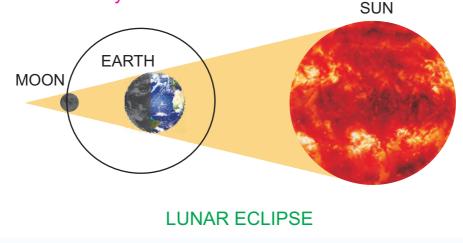
When the moon comes between the sun and the earth the shadow of the moon falls on the Earth. People who live in that part of the earth cannot see the Sun. This is called solar eclipse. This can occur only on a new moon day.



SOLAR ECLIPSE

LUNAR ECLIPSE (lunar - moon; eclipse - hidden)

A lunar eclipse occurs when the earth blocks the sun's rays from reaching the moon. This can occur only when the Earth comes in between the Sun and the moon. A lunar eclipse can occur only on a full moon day.



SOME INTERESTING FACTS!

- If you feel cold during winter, just remember that in parts of North America and Europe, the temperature in winter can be as low as minus 50°C [ice everywhere]
- 2. The ideal room temperature is 25°c.
- 3. The wettest place on Earth is in India, at a place called Mawsynram- it receives 12 metres of rainfall every year!
- 4. The world's driest place is in Chile, the Atacama desert.



Mawsynram, Meghalaya



Atacama Desert, Chile, S.America

ACTIVITIES (Pair Work)

- 1. Talk to each other and share your experiences of weather and climate.
- 2. List the things necessary for different kinds of weather and climate.
- 3. Observe the phases of the moon and trace it in your note books or prepare it with cream biscuits and paste it.



4. Find out if 2 full moon days occur in any single month this year 5. Spot the weather, climate associated words from the grid.

W	L	Ν	т	E	R	н	U
L	I	т	н	I	S	0	Ν
Р	R	Α	L	N	U	т	E
U	Α	С	0	L	D	0	W
R	S	U	М	М	E	R	S
I	М	0	N	S	0	0	Ν

EXERCISE

I. FILL IN THE BLANKS

- 1. The movement of the Earth on its own axis is called _____
- 2. The number of days the Earth takes to go round the Sun is _____
- 3. The days are short and the nights are long in ______
- 4. The average temperature of a particular place over a period of time is called ______.
- 5. The revolution of the Earth around the Sun and the tilt of the Earth's axis causes _____.

II. WHAT IS IT?

- 1. It can be seen in the coming of new leaves on the trees.
- 2. It appears as a dark circle in the night sky on certain days. _____
- 3. It occurs when one celestial object moves into the shadow of another. _____.
- 4. It is usually mild and enjoyable when compared to the other countries of the world. _____.

5. It rotates from west to east. _____.

III. WRITE 2 THINGS YOU CAN DO DURING THE FOLLOWING DAYS.

Sunny Day	·	
Cloudy Day		
Rainy Day	·	
Windy Day		

IV. ANSWER THE FOLLOWING

- 1. What is an axis?
- 2. What causes seasons?
- 3. How does the moon get different shapes?
- 4. What happens when the Earth comes in between the Sun and the Moon?
- 5. Name the seasons of India.





Natural resources are materials that are available naturally on the earth.The Sun, air, land, water, natural gas, coal, oil, petroleum, minerals, wood, topsoil, fauna, flora, forests and wildlife are not made by human beings. Therefore they are natural resources. Identify the resources in the pictures and complete the boxes provided.



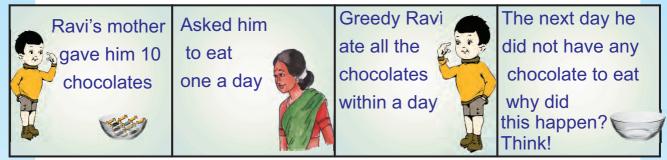
1. RENEWABLE RESOURCES

Renewable resources are those that can be used again and again Eg. Air, Water, and Sunlight.

2.NON- RENEWABLE RESOURCES

Non renewable resources are those that cannot be produced again and again Eg. Coal, Petroleum. These natural resources are found under the surface of the earth. With every advancement in technology, our needs are growing and we tend to over indulge with the available natural resources. It is our responsibility to use the resources judiciously and conserve some for the future generations.

THINK.....



WATER

Water is important for all living beings. We depend on the monsoon for rain. Though 71% of earth is covered by water only 2% is fresh water which is usable .Therefore our main source of water is rain. The rain water gets collected in rivers, lakes, ponds etc.and it is used for domestic purposes, irrigation, and also for the industries. So it is our duty to conserve water.

 Make a model of a house with thermocol with rain water harvesting facility.

• Look at this picture and discuss in groups about the method of rainwater harvesting.



SOCIAL SCIENCE



The Bhakra Nangal Dam is the Highest Dam in India. The Hirakud dam is the longest Dam in the world.

METHODS OF CONSERVING WATER

Rain Water Harvesting means the accumulation and storing of rainwater. It recharges the groundwater. Rainwater collected from roofs of houses, tents etc can make an important contribution to drinking water.

Dams should be built across the rivers to prevent floods and to store water.

We should not throw garbage and industrial wastes into, rivers, lakes, etc., to prevent water pollution.

March 22nd is celebrated as World Water Day . Man utilises nearly 125 litres of water a day.

SOIL

Soil is an important natural resource. It takes thousands of years to form a layer of soil. It is formed by breaking up of rocks and decayed organic matter. Soil varies from region to region depending on the surface, climate and rainfall.

TYPES OF SOIL

The main types of soil found in different regions of India are



ALLUVIAL SOIL BLACK SOIL RED SOIL LATERITE SOIL DESERT SOIL

SOIL FERTILITY

Soil contains dead plants and animals, minerals, water and air which make the soil rich and fertile.Plants and trees grow on the top layer of the earth's surface .



METHODS OF CONSERVING SOIL

- 1. Soil has to be tested periodically to check the fertility of the soil.
- 2. Use of organic fertilizers instead of chemical fertilizers helps to retain the fertility.
- 3. The effluents from the industries should be treated before they are let into the rivers.
- 4. Overgrazing on the hill slopes leads to soil erosion. Hence it should be controlled.
- 5. More trees and plants are to be grown to prevent soil erosion.
- 6. Use of plastics should be Avoided.

The following methods of farming are practised to prevent soil erosion and to increase the fertility of the soil.

METHODS OF FARMING

TERRACE FARMING



The hill slopes are cut into broad steps called terraces and farming is done.On the terraces. It helps to slow down the flow of water. It also reduces soil erosion and land slides The crops that are grown here are coffee, tea and underground vegetables.

Do you wish to become a farmer? Give one reason for your answer.

CROP ROTATION

Successive planting of different crops on the same land is called crop rotation. This helps us to improve soil fertility and to control insects and diseases. In crop rotation a cultivated crop(for example rice) is alternated

with a legume (for example pulses or ground nuts). Legumes help us to maintain the fertility of the soil by taking in nitrogen from the atmosphere

MIXED FARMING



Mixed Farming means combining two independent crops on the same farm. They support each other and add to the farmers' profitability. eg. groundnut and bengalgram.

These methods protect the fertility of the soil

AIR

Air is one of our basic needs. All living things need air to breathe. Air consists of nitrogen, oxygen and other gases. Fresh air keeps us healthy. It is an important natural resource.

In Coimbatore, Tiruppur, Tirunelveli, Kanyakumari and Theni districts wind is harnessed to produce electricity.



But unfortunately the air is polluted by dust, smoke etc. due to an increase in the number of industries and vehicles. It affects plants, human beings, animals and the atmosphere as a whole.

The energy we get from the sun is called Solar energy. It is the ecofriendly energy of the future. Today, solar energy is used to heat water and light up homes. Solar energy is tapped to burn LED bulbs !

WAYS TO CONTROL AIR POLLUTION

There is a need to keep the air clean.

- 1. Vehicles should run on cleaner fuels like CNG. (Compressed Natural Gas)
- 2. Garbage ,plastics and other wastes should not be burned in the open.
- 3. Factories should filter and check the harmful gases before they are let out into the atmosphere.



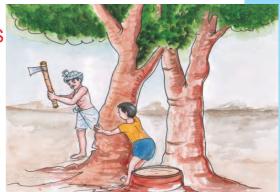


FOREST

A forest is a large area of land thickly covered by trees. One fifth of the land in India is covered by forests. Forests reduce air pollution improve the quality of soil and make it fertile. The roots of trees help in reducing soil erosion.

They provide us with food, timber, medicines and are homes to many animals and birds. They also provide raw materials for industries. These rich flora and fauna are our natural resources. We need to conserve our forests to prevent floods, landslides and soil erosion. METHODS OF CONSERVING FORESTS

 Should prevent over grazing by cattle.
 Afforestation (planting of trees). The government has made a conscious effort to safeguard our environment by launching many programmes to plant more trees .



Amazon forest in South America provides 25% of oxygen The age of the trees are known from its rings in the bark

GLOBAL WARMING

Global warming is the increase in the average temperature of the Earth's surface and oceans. This is due to emission of green house gases such as carbon dioxide from factories, vehicles and burning of fossil fuels or from deforestation. This rise in temperature changes the climate, melts the ice sheets and causes a rise in the sea level. This will pose a great danger to the survival of our planet Earth. So, it is the responsibility of every one of us to take care and save the Earth from any such danger.

Draw a picture and write a slogan on the topic "Save our Earth"

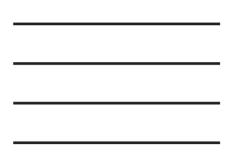


Collect information about Chipko movement and Van Mahotsav.

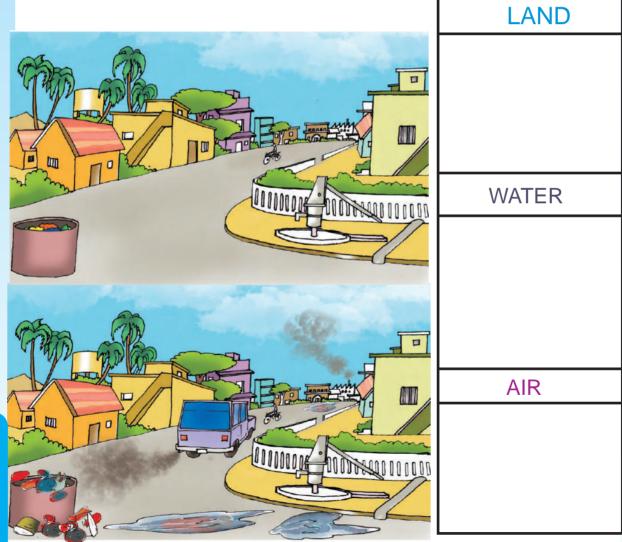
ACTIVITIES

I. We are the water bodies. Can you find us in the word grid ?

S	L	Α	κ	Е	R	Т
0	Ρ	R	Q	Е	L	U
W	Е	L	L	R	V	В
С	G	J	н	D	Е	F
Ρ	0	Ν	D	W	R	Ζ



II. Find out the difference between the two pictures and write the difference in the given pollution column.



- III. Initiate a discussion on the Earth and its resources.
- IV. Encourage the students to use water judiciously at home and at the school.
- V. Ask them to find out the types of Soil in their region.
- VI. Have a debate on the hazards of Air pollution.
- VII Teach them the benefits of growing trees.
- VIII.Let each class sow and maintain a plant at school.
- IX. Collect data of the dams in India and discuss the advantages and disadvantages of dams and find how the hydro electric power is generated.

EXERCISE

I.CIRCLE THE CORRECT WORD IN THE FOLLOWING SENTENCES.

- 1. Water and sunlight are renewable / non renewable resources
- 2. Soil erosion increases / decreases the fertility of the soil.
- 3. We need / do not need air to breathe.
- 4. We must plant/ not plant more trees.

II.SAY WHETHER THESE SENTENCES ARE TRUE OR FALS

- 1. There are two types of resources (
- 2.Coal is a renewable resource (
- 3.Our main source of water is rain (
- 4. The government does not encourage people to grow more trees ()

)

)

III. ANSWER THE FOLLOWING

- 1. Write any four methods by which soil can be conserved.
- 2. Name the two social forestry programmes.
- 3. How can air pollution be avoided?
- 4. What is global warming?
- 5. Suggest ways to protect our planet.

IV. UNSCRAMBLE THESE WORDS TO GET THE USES OF WATER.

1. I D N G K R I N

- 2. CKGOOIN
- 3. G S A H I W N
- 4.SRPCO
- _____

I am Velan, an Indian elephant (also known as Asian elephant). I am an old tusker [male elephant] I now live in the Mudumalai wildlife sanctuary in Tamilnadu I have lived long enough to have seen many events and changes that have occured in the forests I lived. Listen to my story ..

AN ELEPHANT SPEAKS

I was born in the Nilgiri Hills. The forests in the Nilgiris are thick and have a variety of trees. A river flows through this region. this river acts as a border between Tamilnadu and Karnataka we live in a herd. The leader of our group is a tusker. He leads us when we move from one place to another in the forest in search of water and food.



We live in a closely knit groups where young ones are looked carefully by all the female elephants.

I loved eating the tender bamboo shoots and the wild sugarcane that grew in the forest. I remember the enjoyable days I had with my friends, playing in the water and rolling in the mud...I cherish those beautiful memories. Oh! What wonderful days where those!!!



Now that I have become old they have brought me to the Mudumalai wildlife sanctuary which is a safe place for me to live in old age.



Do you know What a wild life sanctuary is?

A wild life Sanctuary is a protected area where the birds and animals live in their natural habitats.



I must tell you about my life in Mudumalai. Look at this man. He is Palanisami. His family has lived in the forest for years. He works as a forest ranger. His duty is to look after the forests. His job is to make sure that there are no forest fires, to see how many animals are there and to bring sick animals to the animal hospital. He informs the department if he sees people hunting animals. He takes tourists on trips to certain areas where they can see the wildlife and birds.

He also makes sure that tourists do not throw plastics and garbage in the protected area. He also takes care of me and the others like me. He has taken a special training to work in the forests. He knows a lot about the sanctuaries and national parks in India. He talks about them enthusiastically and interestingly. Just listen to him.

Hello! My name is Palanisami. Velan has already told you about me. I just want to add one more thing about myself. Right from my childhood I always wanted to be a part of this forest and I enjoy being here. I have worked in a few other Sanctuaries and National Parks. I am happy to share with you information about other national parks and sanctuaries in Tamilnadu.

1.MUDUMALAI SANCTUARY AND NATIONAL PARK

'Mudumalai' means 'ancient hill-range. ' It was made a sanctuary in early 1940. The bird life here is beautiful. It is also one of the Tiger Reserves. The road connecting Mysore and Ooty passes through this sanctuary. Some times, the speeding vehicles run over the crossing animals, particularly at nights. Unfortunately some tourists who drive



through the sanctuary throw plastic bottles and bags these plastic bags and bottles harm the animals.

2. INDIRA GANDHI WILDLIFE SANCTUARY -NATIONAL PARK



It is in the Anamalai Hills. The hills are high and the endemic forest is the Shola, with lots of bamboo!

Look at the animals.

Which is your favourite one?



TIGER

There are many species like



ELEPHANTS

GAUR

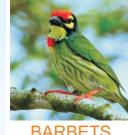
SAMBAR DEER

LEOPARD



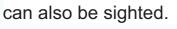
JACKAL Bird species like **FLYING SQUIRREL**

PALM CIVET



BARBETS

SOCIAL SCIENCE





BABBLERS



DRONGOS



PEAFOWL

3. POINT CALIMERE [KODIKKARAI] SANCTUARY

This is a coastal sanctuary. It has sandy coasts and backwaters. Apart from animals this sanctuary is also famous for the Olive Ridley sea turtle which lays its eggs on the shore here.



OLIVE RIDLEY

OLIVE RIDLEY EGGS

STAR TURTLE

During winter, thousands of migratory birds visit the sanctuary. Do you know what migration is? When the climate gets very cold, birds go to places where food and nesting places are available. Sometimes they travel thousands of kilometers to reach suitable places.



PLOVERS



WADERS



TERN



GULLS



DUCKS

These birds spend the winter in warm places . Thousands of greater flamingo also flock here. The migratory birds are best seen between November and March. Why do these birds migrate? Think

4. SRIVILLIPUTHUR GRIZZLED SQUIRREL WILDLIFE SANCTUARY

This Sanctuary spread over an area of 480 sq.km. It was opened in 1989 to protect the grizzled squirrel. The endangered grizzled squirrel is the key species. This squirrel is larger than the three-striped palm squirrel and it is brownish grey in colour. Its belly is dirty white and its tail has white bands. This squirrel lives in tamarind, vagai, naval, neer maruthu and neem trees.



5.GULF OF MANNAR MARINE NATIONAL PARK



Gulf of Mannar Marine National Park is part of the 10,500 sq.km. of Gulf of Mannar Biosphere Reserve.

It is situated on the south-east coast of India. It is known for its rich marine life. Marine elements like algae , sea

grasses, coral reefs, salt marshes and mangroves combined with mudflats and estuaries, allow 3,600 kinds of plants and animals to exist.



6. GUINDY NATIONAL PARK



The Guindy National Park is the eighth smallest national park in India and it is in the heart of Chennai.It was the hunting place of Gilbert Rodericks for the British. The Tamilnadu Forest Department tookover the park in the year 1958. The park has more than 350 types of plants.

Have you ever been to the Guindy National Park?_____ Name the animals and birds you saw there. We can see varieties of animals like Deer, Mongoose, Fox etc...



More than 100 varities of birds are found here.

About 350 species of plants are found here. The Snake park is its special attraction.

7. KOONTHANKULAM SANCTUARY



Koonthankulam is a village 38 kms from Tirunelveli town. People of this village have always been the protectors of birds that visit the village and the nearby ponds and lakes. They do not burst crackers during Deepavali. For they fear that it may disturb the birds there. Even when the chicks fall off the nests by accident, the villagers take care of them.

5 DECLARED NATIONAL PARKS IN TAMIL NADU .

- 1.Indira Gandhi National Park [1989]
- 2.Mudumalai National Park. [1990]
- 3. Mukurthi National Park.[1982]
- 4.Gulf of Mannar Marine National Park [1980]
- 5. Guindy National Park. [1976]

There are 7 wildlife sanctuaries and 13 bird sanctuaries. I will give you the list; you can go through them leisurely. I am sure you enjoyed listening to me as much as I enjoyed talking to you. Here is the list for you.

7 WILDLIFE SANCTUARIES IN TAMILNADU

- 1. Grizzled Squirrel Wildlife Sanctuary, a Giant Squirrel Sanctuary near Srivilliputhur is in Virudhunagar district.
- 2. Indira Gandhi Wildlife Sanctuary is near Indira Gandhi National Park in Coimbatore District.
- 3. Kalakkad Wildlife Sanctuary in Tirunelveli District is part of the Kalakkad Mundanthurai Tiger Reserve .
- 4. Kanyakumari Wildlife Sanctuary is a tiger habitat in Kanyakumari district.
- 5. Mudumalai Wildlife Sanctuary in Nilgiris district is close to Mudumalai National Park.
- 6. Sathyamangalam Sanctuary in Erode District, was made a sanctuary in 2008.
- 7. Vallanadu Wildlife Sanctuary, a Black Buck Antelope sanctuary is in Thoothukudi District.

13 BIRD SANCTUARIES IN TAMILNADU

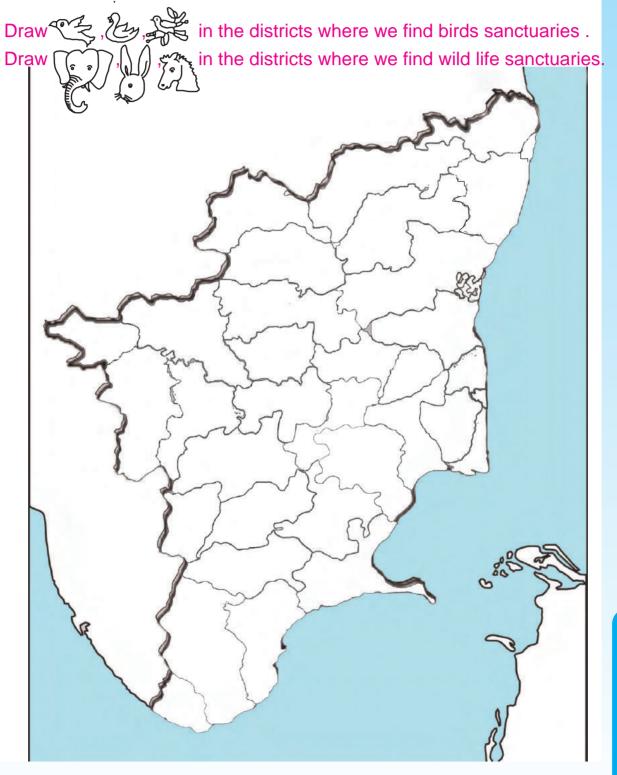
- 1. Chitrangudi Bird Sanctuary
- 2. Kanjirankulam Bird Sanctuary
- 3. Karaivetti Bird Sanctuary
- 4. Karikili Bird Sanctuary
- 5. Koonthankulam Bird Sanctuary
- 6. Melselvanur-Keelselvanur Bird Sanctuary
- 7. Point Kalimar Bird Sanctuary ____ Tanjore District
- 8. Pulicat Lake Bird Sanctuary
- 9. Udhayamarthandapuram **Bird Sanctuary**
- 10.Vaduvoor Bird Sanctuary
- 11. Vedanthangal Bird Sanctuary
- 12. Vellode Bird Sanctuary
- 13.Vettangudi Bird Sanctuary

- Ramnadapuram District
- Ramnadapuram District
- Perambalur District
- Kancheepuram District
- Tirunelveli District
- Ramnadapuram District
- Thiruvallur District
- Thiruvarur District.
- Nagapattinam District
- Kancheepuram District
- Erode District.
- Sivagangai District



Apart from these 13 birds sanctuaries we have Veralimalai Peacock Sanctuary-Pudukottai district. Kallaperambalur lake located in Tanjore district has been recently announced as a bird sanctuary by the forest department.

With the help of Tamilnadu political map do this activity.



EXERCISE

I. FILL IN THE BLANKS

1. The sanctuary that protects the shola forest is _____

2. The sanctuary that protects the turtles is _____

3. The sanctuaries where people protect birds are_____

4. The sanctuary that protects a variety of squirrels is ______.

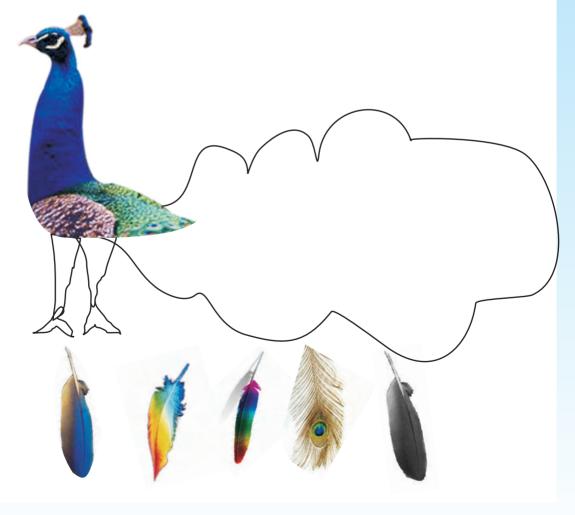
5. The sanctuary that is in a city is ______.

6.The sanctuary that protects marine life is ______.

7. The sanctuary where many migratory birds come is ______.

II. COLLECT FEATHERS OF DIFFERENT BIRDS AND DECORATE THE PEACOCK BY PASTING THE FEATHERS.

&





THE FREEDOM STRUGGLE

August 15th is the most important day for the people of India. It is the day which is celebrated with pride and patriotism by every Indian citizen. What is so special about this day?

It was on this date in 1947A.D that India was declared a free and independent nation by the British.

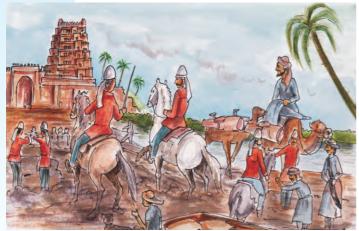
But how did India come under the British?

In 1600A.D, Queen Elizabeth granted a charter to trade freely with the countries of the east. The East India Company came into India. It first established a trading centre at Surat and then began building factories. During this time India was divided into several small states and there was no unity among the rulers. The East India Company took advantage of the situation and began to interfere in the Indian affairs. Soon they conquered the entire country and India became a market for English goods.

The Indian weavers were badly affected, as the machine-made cloth of the British was sold at a cheaper rate in the Indian markets.

THE VELLORE MUTINY -1806





The main reasons for the mutiny were

1. The changes in the sepoy dress code.

2. Hindus were prohibited from wearing religious marks on their foreheads and Muslims were required to shave their beard and trim their moustache. 3. The plan of restoring the kingdom of Mysore to the sons of Tipu Sultan was also a reason for this mutiny.

SEPOY MUTINY- 1857

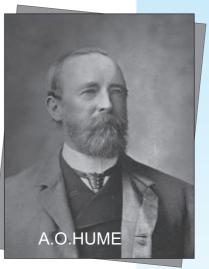
Though there were many causes for this mutiny, the immediate cause was when the sepoys were asked to use cartridges greased with cow and pig fat. This affected the religious sentiments of both the Hindus and the Muslims. Bahadur Shah, Nana Sahib, Tantia Tope and Rani Lakshmi Bai played an important role in this revolt.



The British put down these revolts with their military power [armed forces]. The power of the East India Company was transferred to the Queen of England and the British became a strong power in India.

THE INDIAN NATIONAL CONGRESS -1885

The Indian National Congress was founded upon the suggestion of Allen Octavian Hume, a British official in 1885 in Mumbai. The aims of this congress was to include the educated Indians in the British administration in India and to bring economic reforms. This organization later became the stirring force of the freedom movement.



Gopalakrishna Gokhale, Dadabhai Naoroji, Surendranath Banerjee, Bipin Chandra Pal and Lala Lajpat Rai were some of the early leaders of the Congress. These leaders united the people for the cause of freedom with patriotic messages. Poet Rabindranath Tagore's patriotic songs brought the people together to a great extent.

THE PARTITION OF BENGAL 1905



The British were worried about the growth of nationalistic [patriotic] feelings among the Indians. In order to prevent this, Lord Curzon divided Bengal (the source of all revolts) into East and West in 1905. The eastern part of Bengal had Muslim majority and the western part had Hindu majority. By doing so he tried to destroy Hindu-Muslim unity.

This partition of Bengal angered the people and led to the Swadeshi movement. Indians began to use only goods made in India and boycotted [refused to use] the British goods by throwing them into bonfires lit in public places.

JALLIANWALA BAGH MASSACRE 1919

The British passed the Rowlatt Act in 1919 to control the growing nationalist movements. To show their disagreement to this act in a peaceful way more than 10,000 men, women and children had gathered at Jallianwala Bagh on 13th April 1919 General Dyer, a British official arrived with a troop and gave shooting orders on the innocent unarmed people. This ruthless massacre became the turning point in the freedom movement.

THE NON COOPERATION MOVEMENT 1920

Gandhiji used the Jallianwala Bagh incident as an opportunity to unite the people. He felt that if the Indians refused to cooperate with the British, their rule in India would collapse and India would become free. So he launched the Non-Cooperation Movement in 1920.

SOCIAL SCIENCE

llianwala

emoria

THE CIVIL DISOBEDIENCE MOVEMENT 1930

In 1930 Gandhiji launched the civil disobedience movement. He asked people to disobey all the British laws. Gandhiji took up Dandi March (Salt Satyagraha) against the tax on salt because Indians were asked to pay money to the British in order to produce salt! In the south, under the leadership of Rajaji (C. Rajagoplachari) people marched from Tiruchi to Vedaranyam to break the salt tax law.

THE QUIT INDIA MOVEMENT 1942

In 1942 during the Second World War the British wanted India to join the war. India demanded complete independence in return. Since the British were not willing Gandhiji launched the Quit India Movement in1942.

INDIA BECAME INDEPENDENT 1947

Gandhiji asked the people to 'Do or Die'. The movement gained great momentum. Slowly the British agreed to leave India. Thus India attained Independence on 15th August 1947. Jawaharlal Nehru became the first Prime Ministerof independent India.

LEADERSHIP AND INSPIRATIONS MOHANDAS KARAMCHAND GANDHI

He was born on 2nd October 1869 at Porbandar (Gujarat). He had his early education in India and went to England to study law. In 1893 he went to South Africa to practise law. During his stay there he saw the racial discrimination and oppression committed against the Indians and began to fight against the whites.

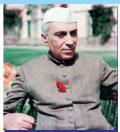
It was only then the concept of Satyagraha (satya- truth, agrahafight) which is based on truth and non-violence, evolved in him.

He came back to India in 1915 and visited every nook and corner of India and set up the Sabarmati Ashram in Gujarat in 1916. He called the oppressed section of people as Harijan or children of God. He worked for the revival of village craft. He popularised charka and khadi as symbols of self-reliance.



JAWAHARLAL NEHRU

He was born on 14th November 1889. He was the son of Motilal Nehru who was one of the important Congress leaders. Nehru studied in England.



In 1912 he joined the National Movement. He was an ardent follower of Gandhiji and his principles. He took part in the national movements and was sent to jail several times. He believed that improving the condition of the common people cannot be separated from the freedom struggle. He became the first Prime Minister of independent India. V.O. CHIDAMBARAM PILLAI

> V.O. Chidambaram Pillai was born in Ottapidaram, in Tuticorin district of Tamil Nadu, on 5th. September 1872. He is also known by his Tamil initials Vaa. Oo. Ce. He was a lawyer and a trade union leader. He entered politics in 1905 soon after the Partition of Bengal and became a member of

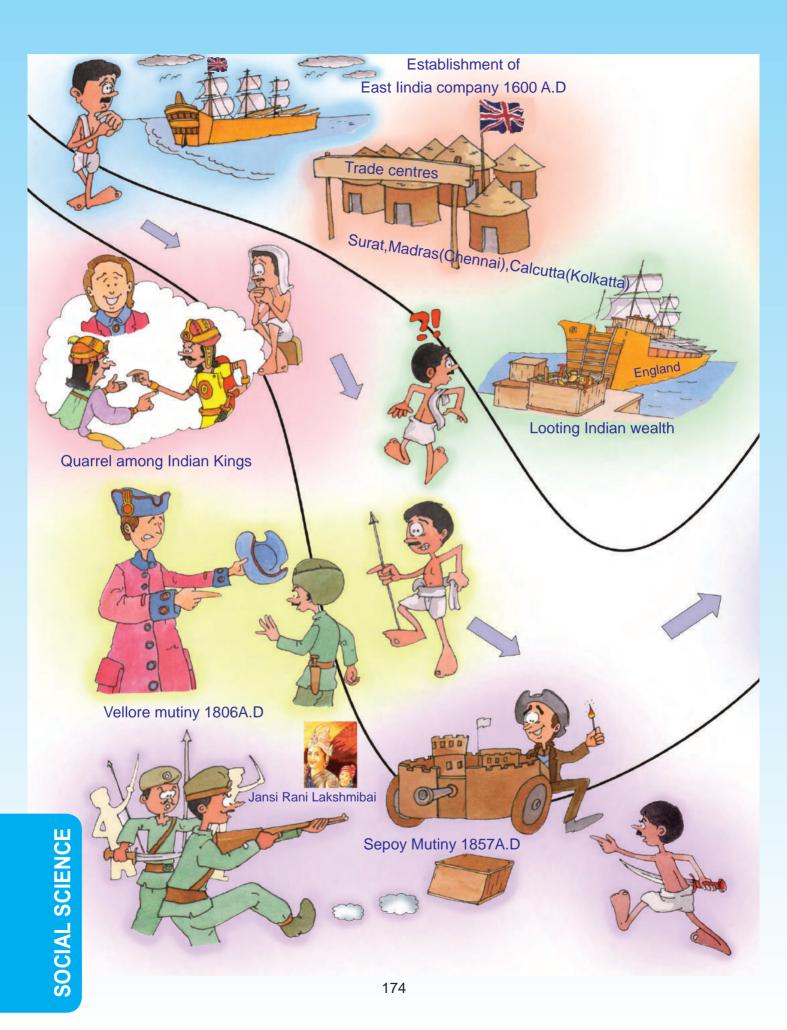
Indian National Congress. He was the first Indian to start a Steam Navigation Company that ran a ferry service between Tuticorin (Thoothukudi) and Colombo.

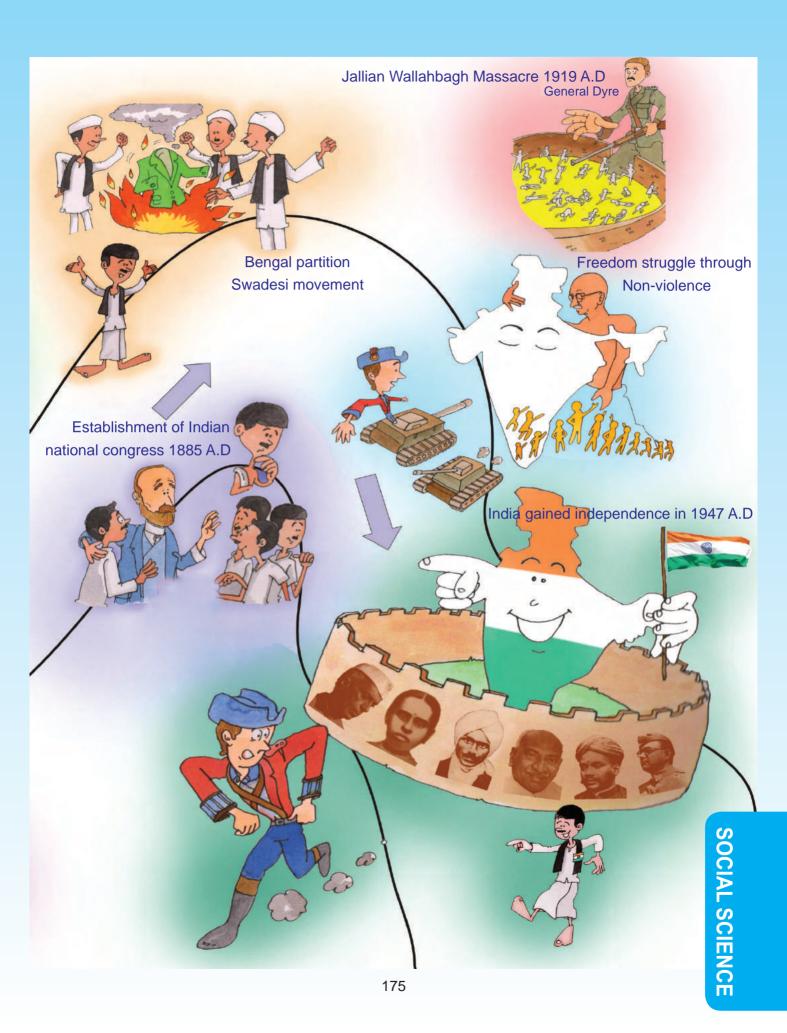
This Swadesi Steam Navigation Company was bold enough to compete with the British trading ships. For this bold action of him, he was called 'Kappalotiya Tamilan'. He was accused of talking and writing against the British and sentenced to life imprisonment. He was illtreated by the British in the prison.

THILLAIAADI VALLIAMMAI

She was born on 22nd February1898 at Thillaiaadi in Nagapatnam district. Her parents migrated to South Africa from India. Valliammai had never been to India. Right from her childhood she had seen only hatred for Indians and the racial discrimination. As a young girl she joined her mother in the march against the marriage law passed by the South African government. Along with the others she was put in jail where she took ill. Later she died at the age of 16. Gandhi said that her sacrifice gave him the inner force to fight for Indian Independence.







TIMELINE CHART

YEAR	EVENTS
1600	Establishment of East India Company
1806	Vellore Mutiny
1857	Sepoy Mutiny
1905	Partition of Bengal
1919	Jallianwallabagh Massacre
1920	Non Cooperation Movement
1930	Civil Disobedience Movement
1942	Quit India Movement
1947	India gained Independence
1950	India became a Republic

ACTIVITIES

I. WORK IN GROUPS

Find out the various steps through which our National flag was developed - draw and show.

Collect pictures of your favourite freedom fighter and make a chart to say why he / she is your favourite.

II. FIND OUT THE LEADERS HIDDEN IN THE GRID

	А	V	R	D	В	J	Ν	D	Ν
	V	А	А	0	0	С	Е	L	S
1. V	Е	L	D	G	S	Ν	Н	В	L
2. V	0	L	М	Т	Е	С	R	J	G
3. N	W	1	А	С	Q	U	U	Y	0
4. G 5. G	G	А	N	D	н	1	F	Т	К
6. T	Х	М	W	Е	Y	G	Н	С	А
	А	М	N	Y	S	1	F	N	L
	С	А	W	Q	S	E	D	J	Е
	V	1	R	1	F	W	U	D	S
	Т	U	J	Т	А	G	0	R	Е

EXERCISE I. COMPLETE THE FOLLOWING SENTENCES 1. The East India Company established its first trading centre in India at _____. 2. The main reason for the 1806 Vellore Mutiny was change in ____. 3. A.O. Hume a British official suggested the formation of _____. 4. Rabindranath Tagore brought the people together through his _____. 5. In 1920 Gandhiji launched _____. II. GIVE REASONS 1. East India Company began to interfere in the Indian affairs.

- 2. Jawaharlal Nehru worked for the welfare of the common people.
- 3. Thillaiaadi Valliammai was imprisoned.
- 4. V.O. Chidambaram Pillai is known as 'Kappalotiya Tamilan'

III.FILL THE TABULAR COLUMNS

MUTINY	YEAR	REASON	YOUR OPINION
VELLORE			
SEPOY			

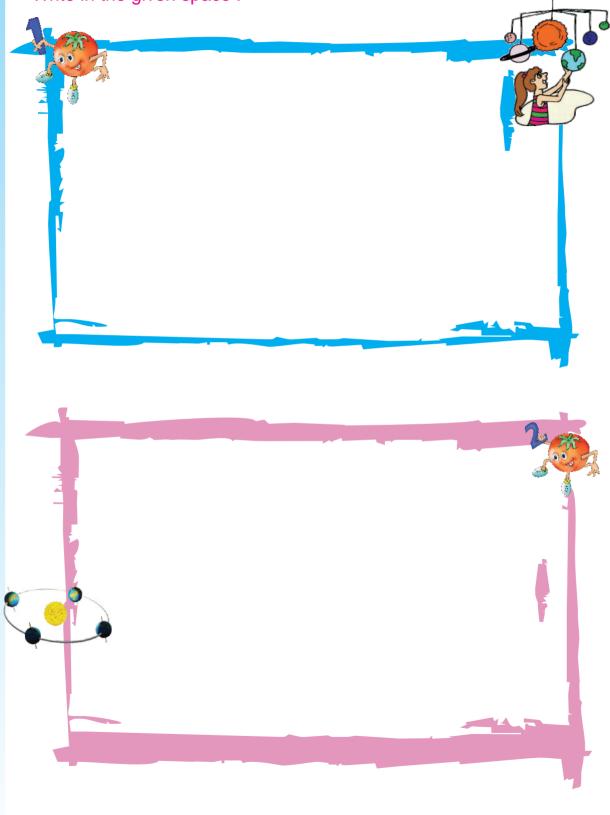
IV. ANSWER THE FOLLOWING

- 1. What was the immediate cause for the Sepoy Mutiny?
- 2. Why did Gandhi organize the Non Cooperation Movement?
- 3. Write three sentences about Salt Sathyagraha.
- 4. When did the concept of sathyagraha evolve in Mahathma Gandhi?



LET US RECALL

What comes to your mind when you think of each lesson? Write in the given space .



SOCIAL SCIENCE



'I can, I did'

Student's Activity Record

Subject:

Sl.No	Date	Lesson No.	Topic of the Lesson	Activities	Remarks