



# The Story of Life

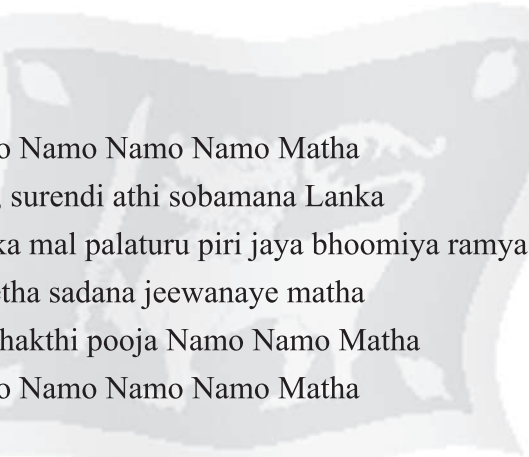
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# The National Anthem of Sri Lanka



Sri Lanka Matha  
Apa Sri Lanka Namō Namō Namō Namō 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 Namō Namō Matha  
Apa Sri Lanka Namō Namō Namō Namō Matha  
Oba we apa vidya  
Obamaya apa sathya  
Oba we apa shakthi  
Apa hada thula bhakthi  
Oba apa aloke  
Apage anuprane  
Oba apa jeevana we  
Apa mukthiya oba we  
Nava jeevana 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  
Namō, Namō Matha  
Apa Sri Lanka Namō Namō Namō Namō Matha

Apa Sri Lanka Namō Namō Namō Namō Matha

Year	Name of the Student who is using the book	Class	Signature of the class teacher
2026			
2027			
2028			
2029			



**Module**

***The Story of  
Life***



By studying this lesson you will be able to.....

- identify how the earth was formed,
- find out how a suitable environment was formed for living beings on earth,
- find out how man originated from living beings,
- understand the process of evolution from the beginning.



# The Story of Life

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How was our earth at the beginning?

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Is the world we live in today the same as the earth we lived in the past?

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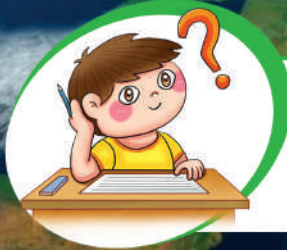
How did trees and branches, animals and people originate?

?

What were the first animals like?

?

How did the earth originate?

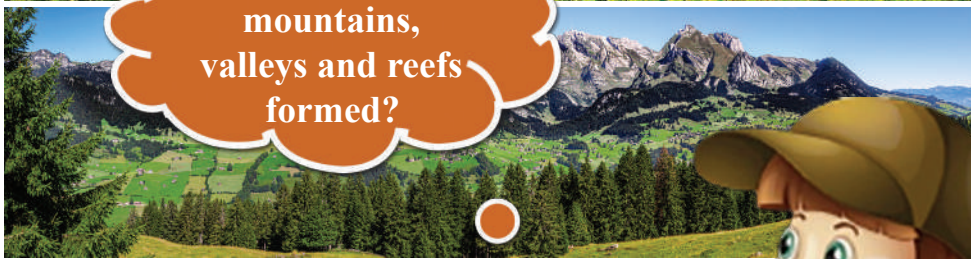


Were you able to think about these questions.....?

Let us find the answers in this chapter



How are rivers  
and waterfalls  
formed?



How are  
mountains,  
valleys and reefs  
formed?



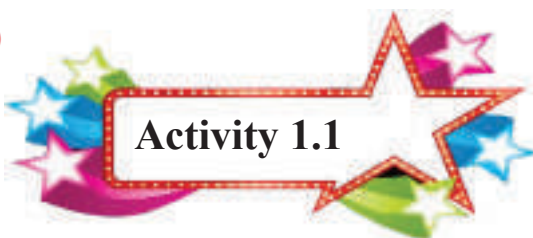
See, there's  
also snow.





**Let us find out all  
about them**





# **The Environment Before Life Began**

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## **Learning Outcome**

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Examine the environmental conditions before life originated, using sources.

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**Duration - 02 periods**

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**At the end of  
this activity I will be able to,**

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- know about how the earth we live on, was formed,
- identify how a suitable environment was formed for life to originate on earth.



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### Step 01 - Approach - Duration 20 minutes - 10 Marks

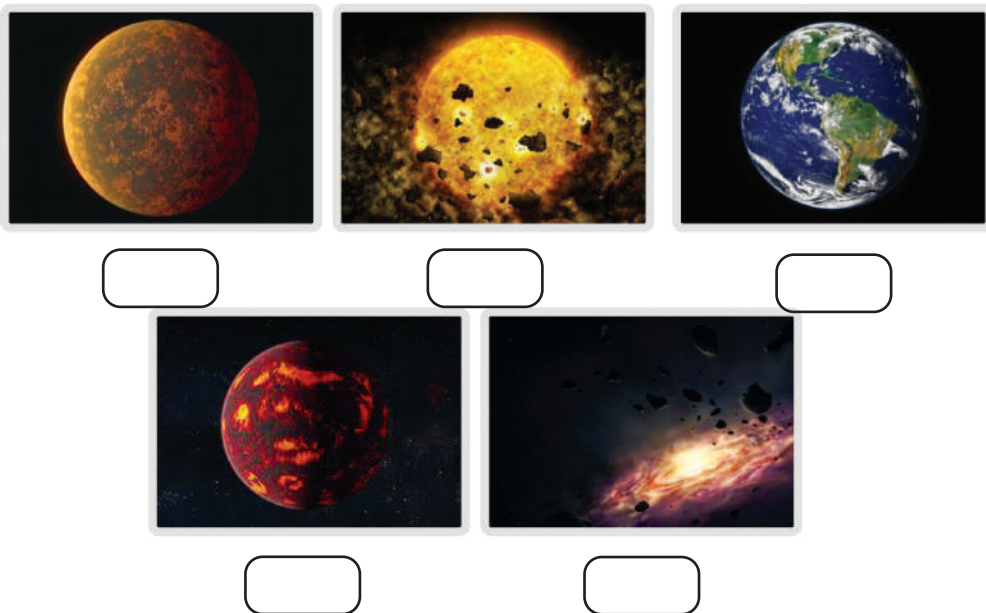
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- Study the picture given below. It shows how the earth we live on was formed gradually.



Picture 01

Based on what you have observed so far, number the boxes below (picture 2) in the correct order, showing the gradual formation of the earth.



Picture 02

## **Step 02 : How was the Earth that we Live on Formed - Duration 80 minutes - 10 marks**

Many people have given different ideas about the origin of the earth. People have done lots of research about it. Based on their findings it is believed that 4.5 billion years ago

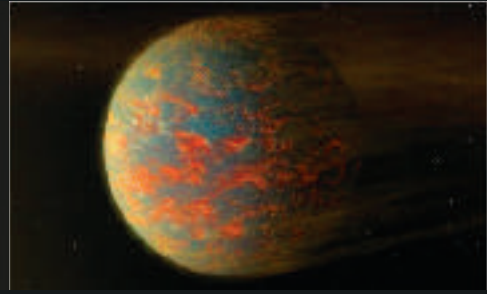
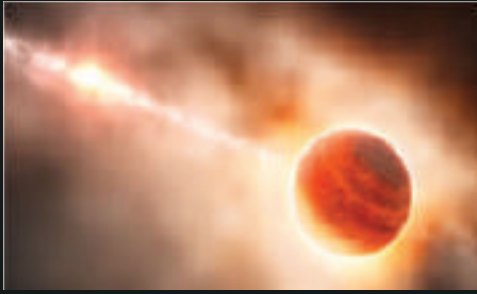


dust, clouds of cosmic dust and other particles of the sky gathered to form the earth. Those particles then collided with one another at great speed. As a result the earth got a very rough surface. This picture shows you how this process happened in the sky 4.5 billion years ago.



These two pictures show how the earth was formed by floating dust particles, colliding with the clouds and other materials, resulting in the rough surface of the earth.





- At the very beginning the earth was red due to the intense heat. This picture depicts this.
- In this picture you can see how the reddish nature of the earth is reduced due to the gradual reduction of the heat.

- Have a close look at the following picture.

This picture shows the earth as red in the early days and as blue in the present day. How did this happen? Is it due to volcano eruptions and lava flow?

What is the reason for the earth to be filled with water and turn in to blue?

Write one reason in your exercise book.



Picture 03

**How did  
the earth  
we live on become blue ?**



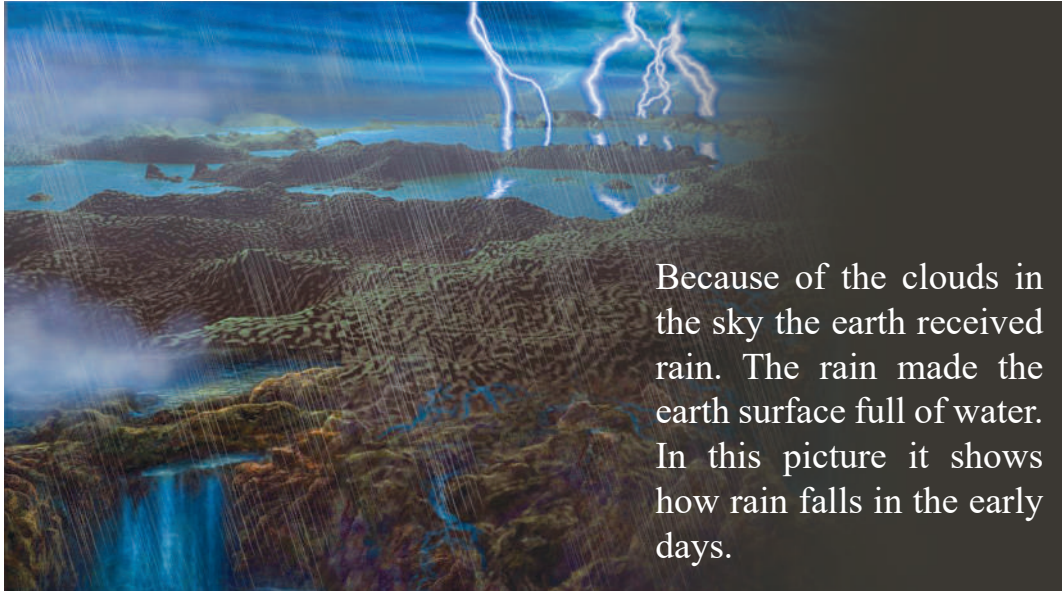


This did not happened at once. It is a result of a long process of about millions of years. Let us see how it happened.



**These pictures show the formation of clouds in the sky, when the heat is reduced**

The earth faced volcano eruptions and meteorites, for a long time, but the heat went down later and gradually the atmosphere changed and the clouds appeared.



Because of the clouds in the sky the earth received rain. The rain made the earth surface full of water. In this picture it shows how rain falls in the early days.

The rain had fallen continuously for thousands of years. As a result the earth was filled with rain water. Then rivers, lakes, seas and oceans originated.



**These two pictures show how the earth is filled with water**



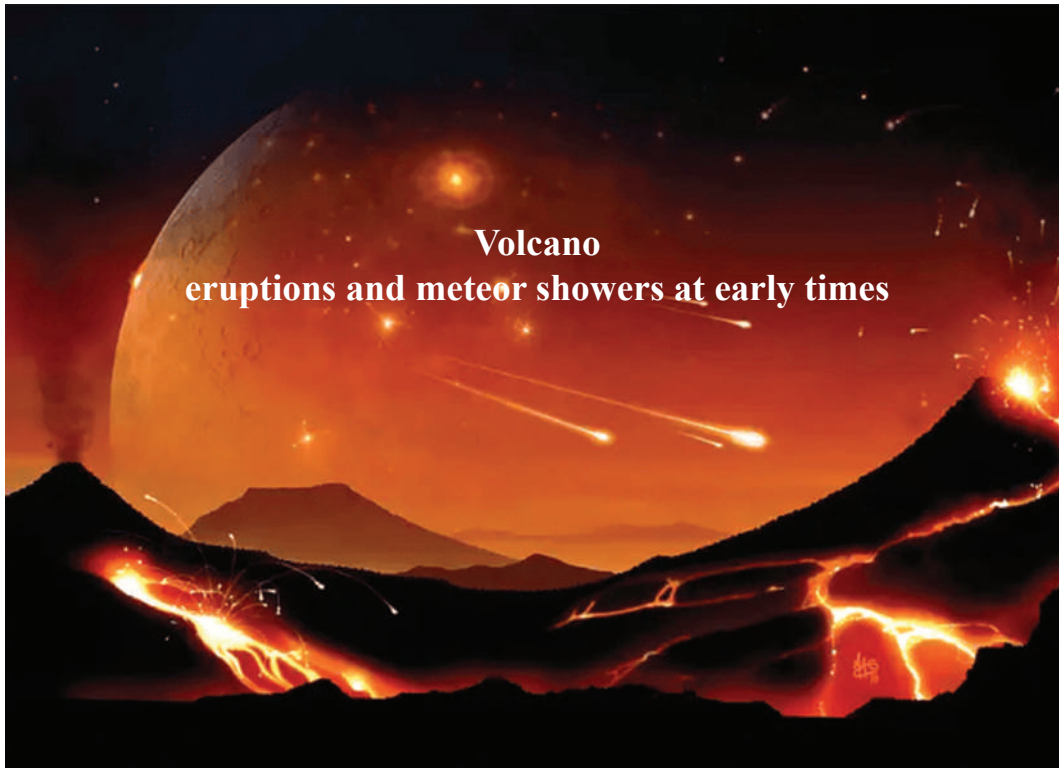
After sometime the thin soil layer of the earth melted and water got gathered on mountains, in valleys, as well as in places of low altitude. This picture shows this. Accordingly, this is how the earth became the blue planet.

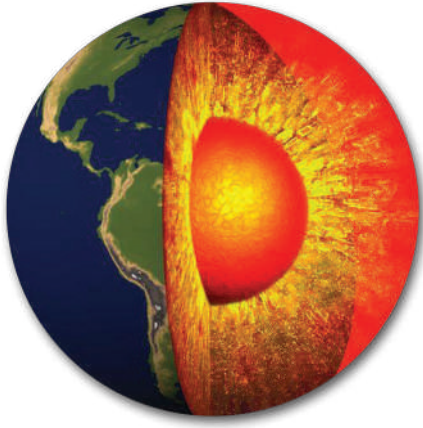


This is how the earth is visible today as a blue planet

Dear children, though the earth is visible in blue, full of water, even during the early times, volcano eruptions and meteor showers often happened. Pictures given below describe them.







At present the earth appears in blue, filled with water. The picture shows solid inner core has excessively high temperature. So that, even today volcano eruptions can be seen in some areas (you may learn further about this in your Geography lessons).



A picture of lava flow in a volcanic eruption in Hawaii islands in 2018.

- Visit web sites and find more about the formation of the earth.
- Do it with your friends.

- Check the order of numbers you have marked for activity done in step 01 with the information you have gained so far.
- Discuss with your teacher the correct order of numbers in the boxes.
- Assess your activity based on the below table.

<b>Very Good 10 - marks</b>	<b>Good 6 - marks</b>	<b>Need to improve 01 mark</b>
5 correct	3 or 4 correct	2 or less

Marks received	
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- Compare what you have learnt so far with the reason written in step 02 (why the earth is blue).
- Get the assistance of the teacher.
- According to the teacher's instructions, give marks for your answer.

Marks received	
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# **The Origin of Life on Earth**



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## **Learning Outcome**

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- Examine with the use of sources, the environmental background of the origin of man.

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**Duration - 08 periods**

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**At the end of  
this activity I will be able to,**

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- identify how life was formed on earth,
- understand the evolution of life until the origin of man,
- understand gradual changes over time.

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### Step - 01 - Approach - Duration 20 minutes - 10 marks

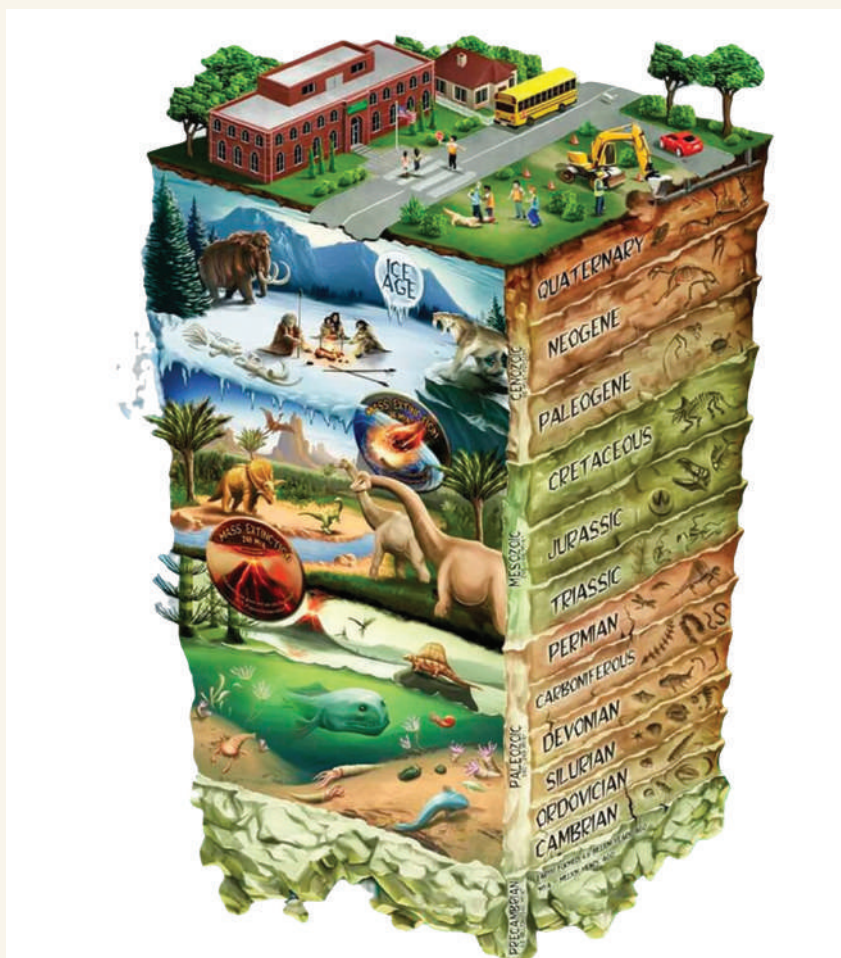
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- What was the shape of the first life on earth?
  - Draw an imaginary picture of the first life on earth.
  - Write your reason for deciding the shape of the first life.
- 

### Step - 02- Origin of Life - Duration 30 minutes - 10 marks

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- Study the picture given below.
- Discuss with the teacher what you can see in the picture.

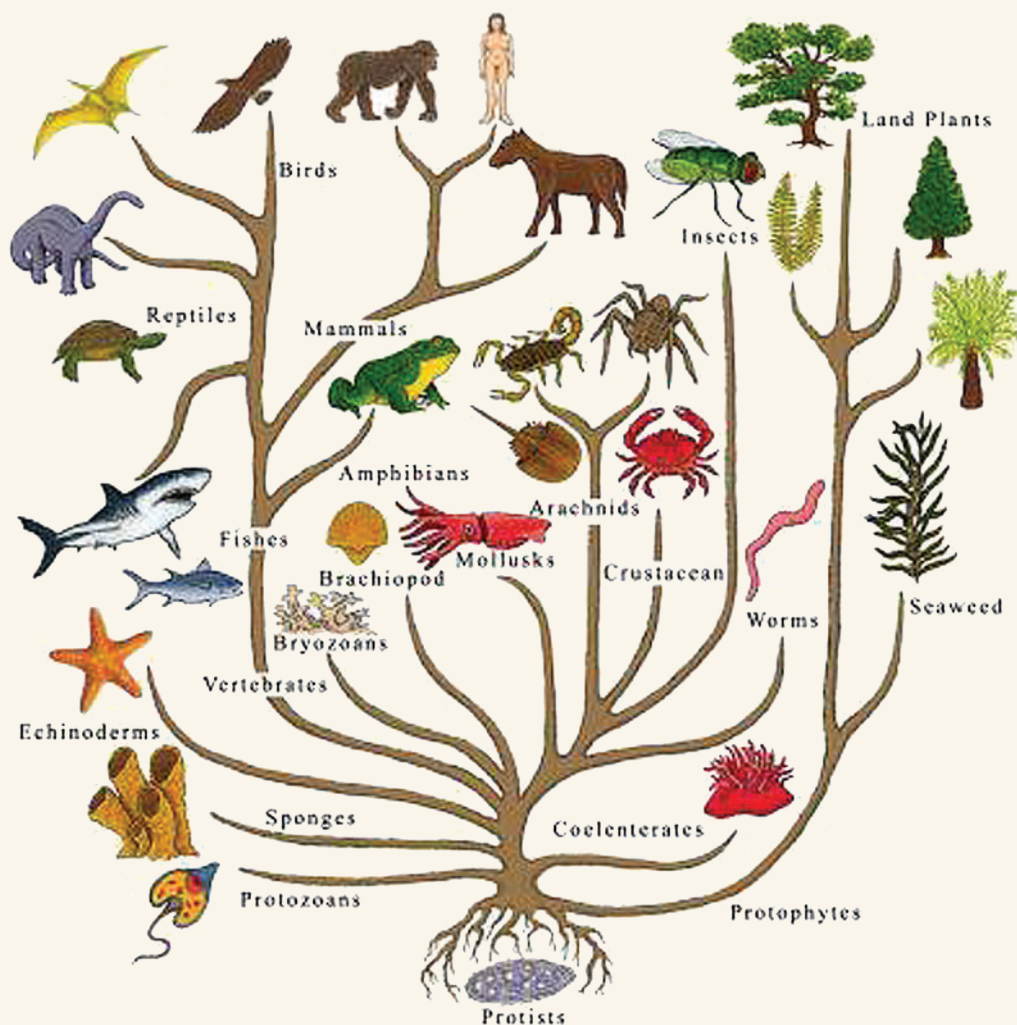




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### Step - 03- Growth of Life - Duration 50 minutes - 10 marks

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According to this picture, you can see all fauna and flora begin from the same root. Similarly, you can see how man originated and developed by undergoing changes and adaptations gradually. This process is called the evolution of life. Let us find out more about it.

# Origin of Life

The first living being of the earth, originated in water, about 300 billion years ago. That living being was identified as a tiny bacteria that could not be seen by the naked eye. An imaginary illustration (a drawn picture) is given below.

**This picture shows a similar  
bacteria**



Later on, one - celled living beings gradually originated on earth (you may learn about one - celled living beings in your science lessons). The special feature of this is, the living beings couldn't be divided into fauna or flora at first. Later the living beings like worms, star fish, oysters and sea weeds originated. You can see the shape of one - celled living being in this picture.



- Compare your imaginary picture of the first life of the world (done under activity 1.2 step 01) with the bacteria given in the lesson.
- Identify the similarities and the differences.
- Assess your activity under your teacher's guidance.



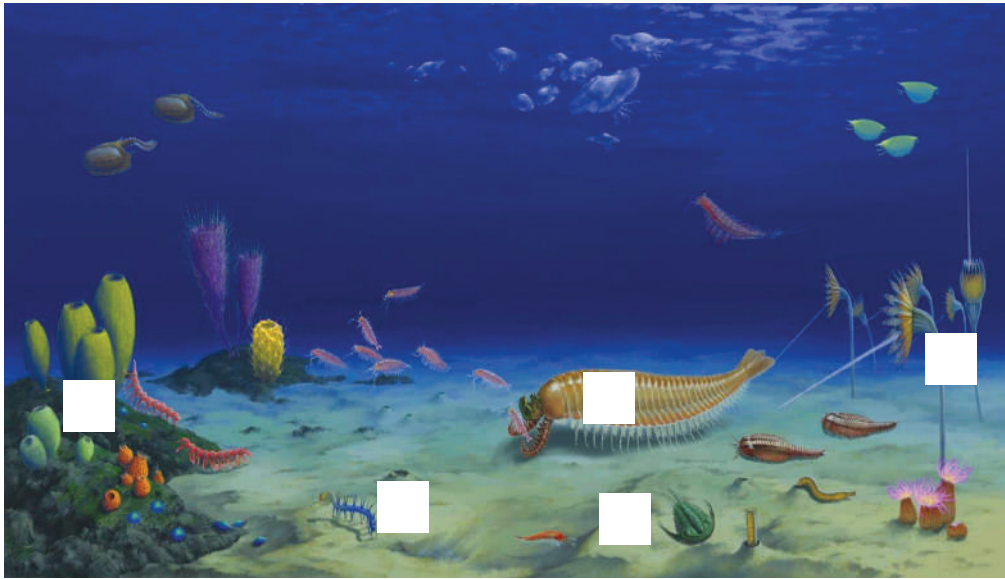


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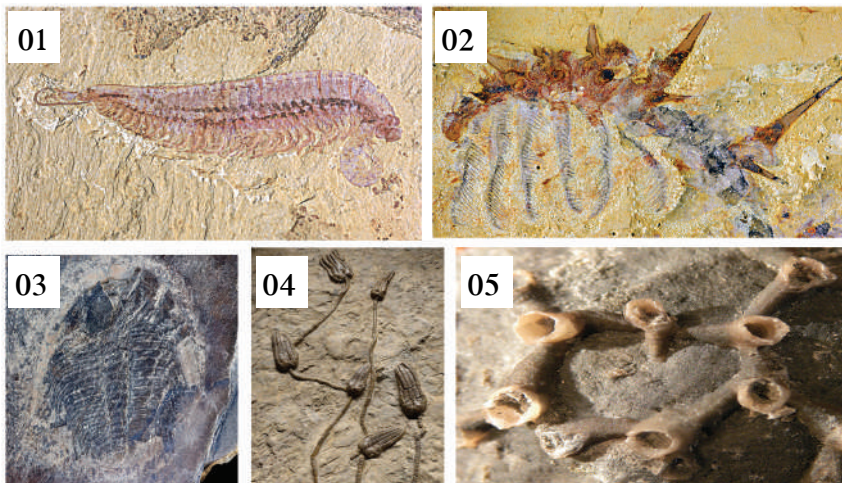
## Step 04 - The Earliest Life - Duration 50 minutes - 05 marks

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- Picture 01 shows the first life on earth. Picture 02 shows the fossilized remains of the first life on earth.
- Identify the living beings in picture 02 and number them correctly in picture 01.
- Give the marks for the activity with your teacher's instructions.



Picture 01



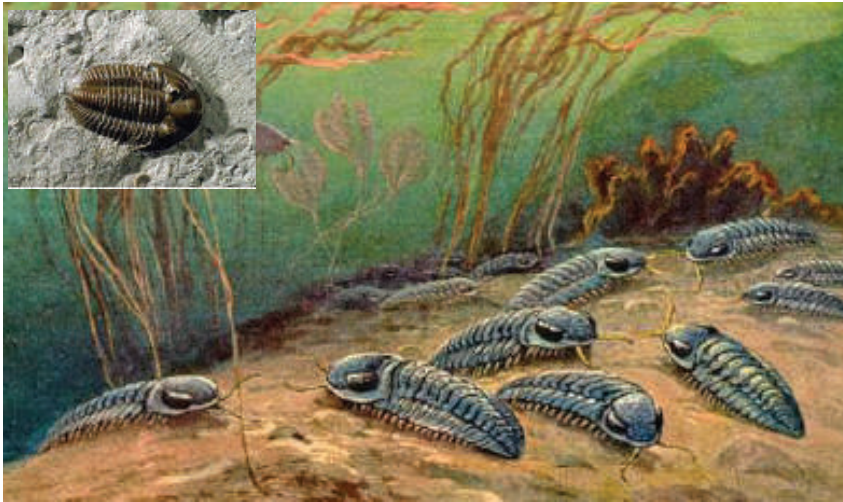
Picture 02

The pictures used for the above activity belong to the living beings that lived first on earth about millions of years ago. After those plant and animal remains were buried under layers of soil for a very long time, they gradually merged with the soil and fossilized in a way that preserved their shape. As a result, today we are able to see them in this form. These are called fossils.

According to the picture related to this activity we can identify some of the existed species of the world. All of them had lived in water. The pictures below too show such fossils of earliest life and their forms.







Various fish varieties that breed in water



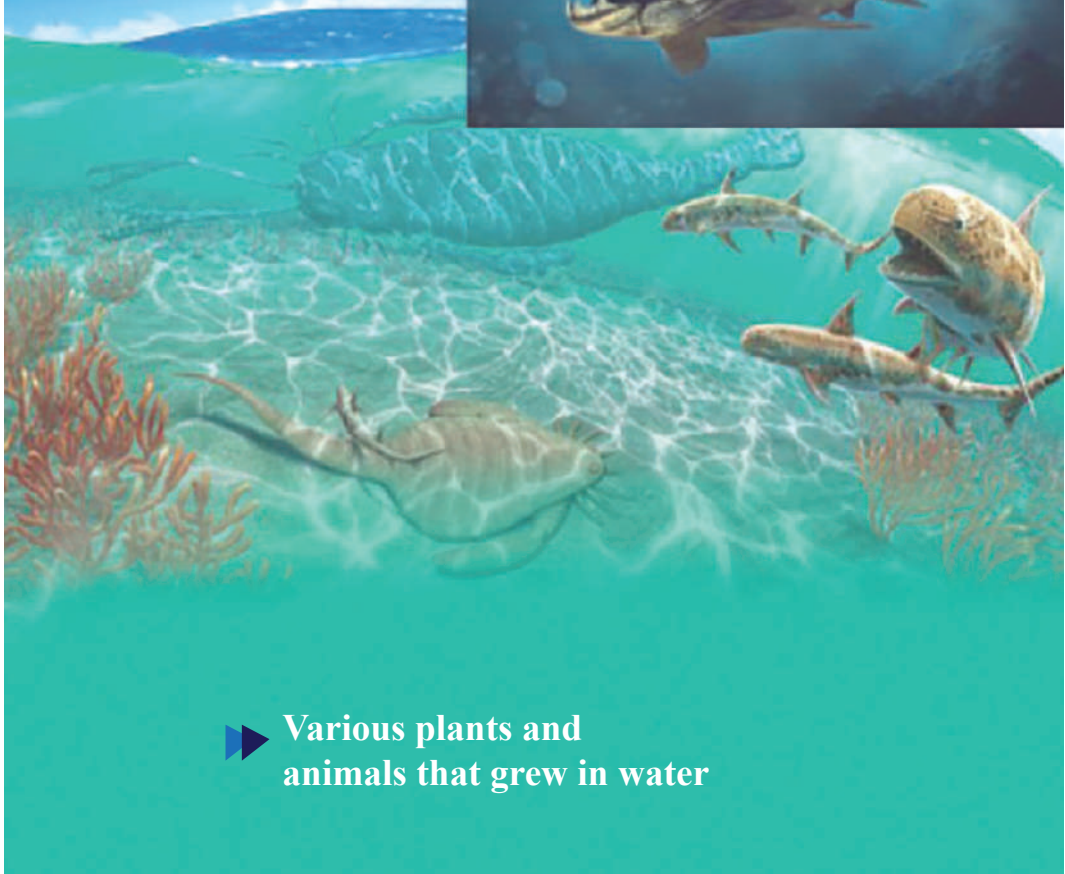
Fish with a Spinal Cord



Fish with Fins



►► Fish with a Crust



►► Various plants and animals that grew in water

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### Step 05 - Growth of Trees on Earth

Duration 50 minutes - 10 marks

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**Read the given details well and do the activity.**

Plants and animals grew in water for a long period. There was no life on land but there were volcano eruptions. The various plants that originated in water, grew above the water after millions of years ago of their origin.



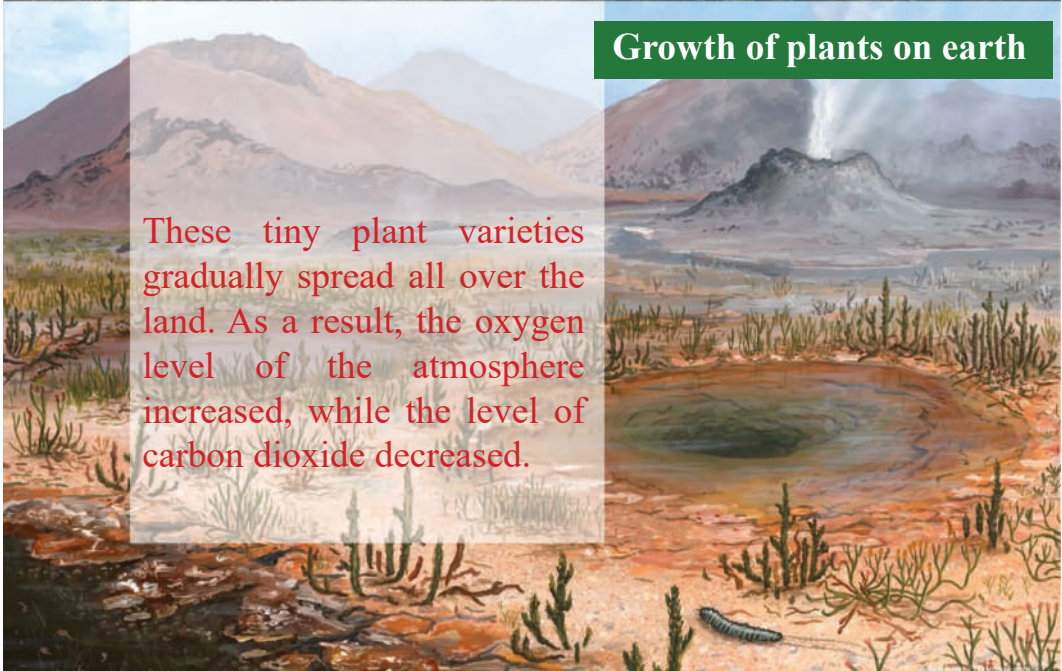


The plants that grew in water gradually entered the land. Most of them grew as grass and ferns.



### Growth of plants on earth

These tiny plant varieties gradually spread all over the land. As a result, the oxygen level of the atmosphere increased, while the level of carbon dioxide decreased.







You can see from this picture, the gradual growth of trees, beginning with different shapes and sizes of plants and the greenery in the environment.





Draw a picture to show the evolution of plants, from algae to huge trees. Use the information you gathered so far for this drawing.

- Give marks for the activity, under your teacher's guidance.

## Step 06 - Origin of Animals on Land

Duration 100 minutes - 10 marks

Study the details given below and do the exercise given at the end of step 06.

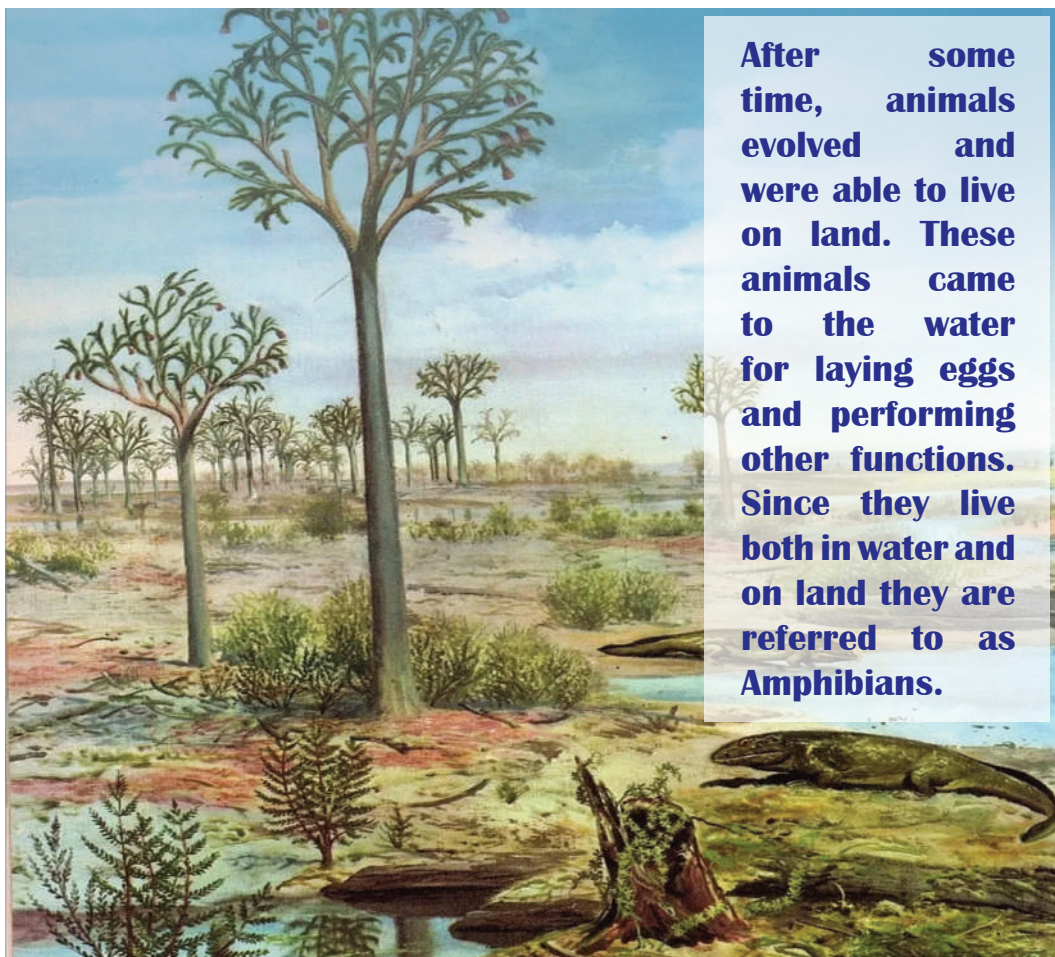
When the land became green, lots of food was found. So the animals in the water came to the land. These animals are, the arthropoda like scorpion, spider, ticks (you can learn about arthropoda in your science lesson).



► Fish with lungs

By this time huge fish like the sharks were born. They ate small fish. Some fish had lungs and fins. Fins support fish to swim fast, while the lungs support them to stay on land for a little while. The picture shows the fish with lungs.





**After some time, animals evolved and were able to live on land. These animals came to the water for laying eggs and performing other functions. Since they live both in water and on land they are referred to as Amphibians.**

Millions of years later, the environment too experienced some differences. Most of the reservoirs dried out, due to long droughts. The animals adjusted to the change since they had to stay on land for longer times. This is how reptiles emerged. Reptiles are animals that crawl. These reptiles can be categorized as Herbivorous and Carnivorous. There also existed flying reptiles and Mammal reptiles. The most dangerous reptile was the Carnivorous Dinosaur. It is said, that some Dinosaurs were four times bigger than an Elephant. This era is called the "Dinosaur Era" (because of the uniqueness of the Dinosaurs).





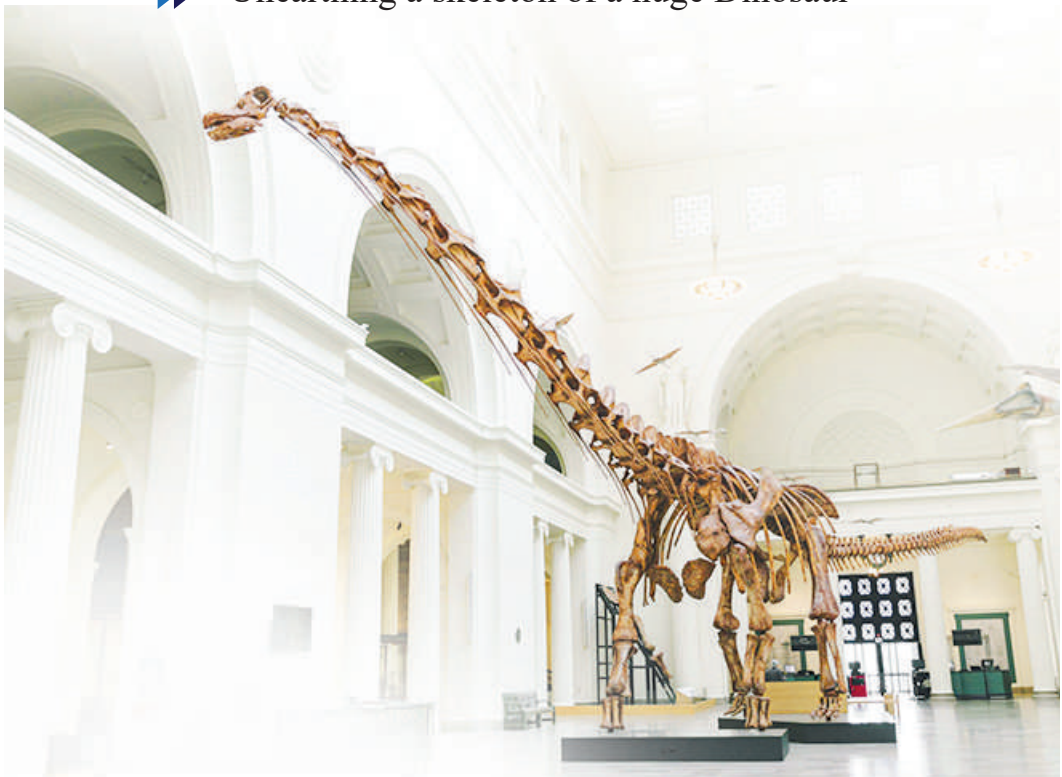
## Dinosaurs

## Different Reptiles



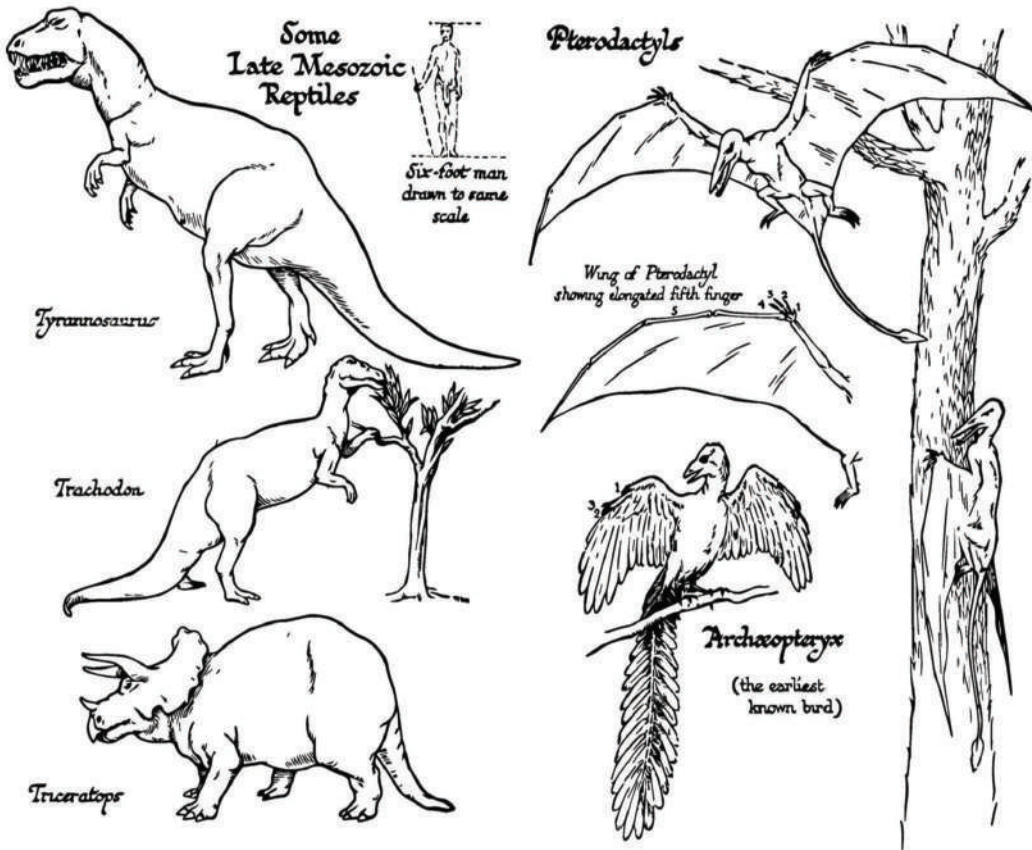


► Unearthing a skeleton of a huge Dinosaur

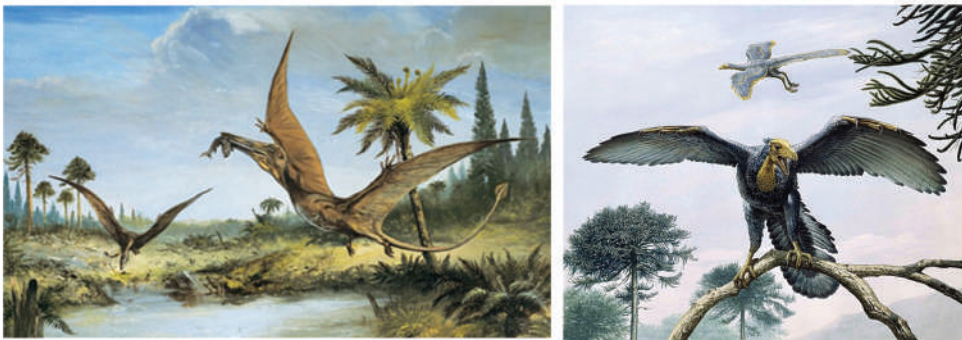


► A skeleton of a huge Dinosaur kept in the Chicago Field Museum





Dear children, study this picture well. If a six - foot - tall human had lived during that time, you would understand the difference in sizes between humans and the reptiles that lived during the age of the Dinosaurs.



None of the birds of this era could fly. The special feature of them were that they mostly climbed to the top of trees and flew downwards.



The picture shows the mammal reptile. This reptile lived underneath the earth for it's survival from huge animals. Animals like Dinosaurs who lived on earth in the early times became extinct due to meteorites falling. But this mammal reptile continued to exist by hiding underneath the earth.

"The Mammal Era" began from these animals.



Due to a huge asteroid falling on earth animals in this era including Dinosaurs became extinct. It is said that, as this huge asteroid fell, a dusty cloud had covered the earth for many years. As a result of this plants got destroyed. Animals that were born from eggs (Oviparous) too became extinct due to the destruction of eggs. Thereby the next generation too became extinct. Thus the Dinosaur era ended.

►► A picture shows the fall of huge asteroid.





A picture showing the extinction of Dinosaurs due to a huge asteroid.

Owing to the mammal reptiles that hid and animals and trees that faced the changes in a strong manner, the next era commenced. This is known as the era of Mammals. The special animal of this era was the Mammoth. Therefore this era is called the "Mammoth Era". Since there was a severe cold weather the era was also called "The Great Ice Age".







## The Mammals

Man was born in this Mammath Era. Generally mammals are considered to be wise animals. Out of all of them man is considered to have great wisdom. Before man was born, the Northern region of the globe was totally covered with snow. Due to severe cold for a long periods, animals which could not bear the cold disappeared in great numbers.



### The Great Ice Age

► Mammath of the Ice Age

It is after the Ice Age that man came to exist. Man originated from tiny mammals that glided on trees. Findings show that these mammals who stepped on land, leaving the trees developed very fast. This developed man is now even capable of controlling the environment. This is the evolution of man which is the story of man. This story is given in the Grade 6 first term module, for you to study.



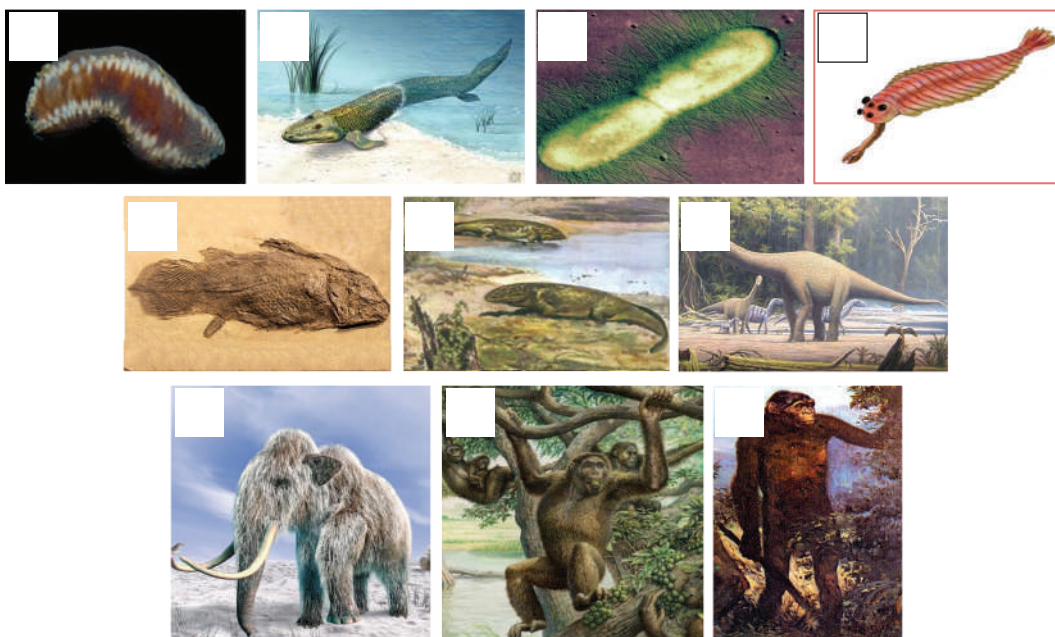
**Various kinds of Mammals**





## Exercise

- Study the pictures of animals given below.
- Re-arrange the pictures in the correct order of the origin of man from animals that existed on earth.
- Number the pictures in the correct order. Write the number in the given boxes.
- Obtaine on your marks as given in the table with your teacher's instructions.



<b>Accurate to a large extent 10 marks</b>	<b>Accurate 06 marks</b>	<b>Need to be corrected 02 marks</b>
Correct more than 7	Correct 5 or 7	Correct 4 or less



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**Step 07 -The Environment in which Man was Born -**  
**Duration 100 minutes - 25 marks**

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- Do the activity using the knowledge you have gained so far.
- Do it as an individual activity.
- Prepare a speech/ draw a picture/ write an essay on the topic, "If the Dinosaurs still alive". Present it to the class.

