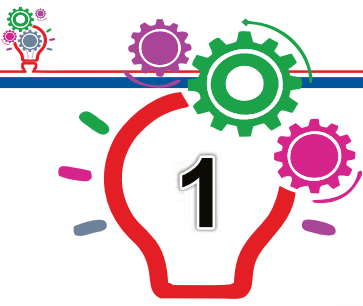


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# Planet Earth

*Earth is a planet with a population of 8 billion. It is the third planet from the Sun.*  
**Given below are some of the planet Earth's creativity.**  
**Fill in the blanks with the help of Help List :**



- 1. Age of the Earth \_\_\_\_\_
- 2. Mass of the Earth \_\_\_\_\_
- 3. Diameter of the Earth at the equator \_\_\_\_\_
- 4. Diameter of the Earth at the poles \_\_\_\_\_
- 5. Circumference of the Earth:
  - a) At Poles \_\_\_\_\_
  - b) At Equator \_\_\_\_\_
- 6. Highest land point \_\_\_\_\_
- 7. Lowest land point \_\_\_\_\_
- 8. Greatest ocean depth \_\_\_\_\_
- 9. Distance from the Sun:
  - a) Maximum \_\_\_\_\_
  - b) Minimum \_\_\_\_\_
- 10. Total surface area of the Earth \_\_\_\_\_

### Help List

12,756 km,  $5.92 \times 10^{24}$  kg, 4.6 billion years, Dead Sea, Mt. Everest Peak, 147 million km (Approx), 152 million km (Approx), 40,008 km, 40,075.16 km, 510 million sq km, 12,714 km, Mariana Trench

### Info-Bits

The largest volcano on the Earth is Mauna Loa volcano in Hawaii.

### Let Me Answer

- a. Which planet is closest to the Sun?
- b. Name any planet which spins sideways.

**TEACHER'S NOTE** Guide students to understand about our mother Earth.



# Our Universe

*The universe included matter and energy, plants, stars, galaxies and the contents of intergalactic space.*

**Fill in the blanks with the help of the Help List :**

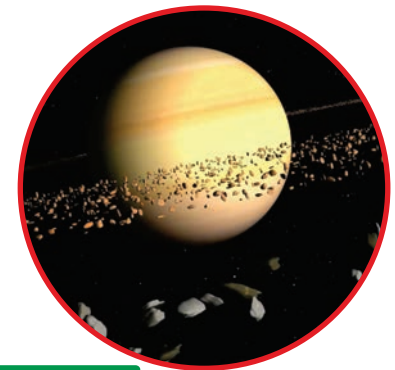
- \_\_\_\_\_ is the fourth planet. It is also called the Red Planet.
- Mars has an average diameter of \_\_\_\_\_ km.
- Mars spins round once every 24.62 hours and takes \_\_\_\_\_ days to complete its orbit.
- Mars volcano, \_\_\_\_\_, is the biggest in the solar system.
- \_\_\_\_\_ discovered a possible fossil of a microorganism in a mars rock.
- \_\_\_\_\_ Mission was send to Mars in 1997.
- \_\_\_\_\_ is the second biggest planet in the solar system, 815 times bigger than the earth.
- Saturn is named after \_\_\_\_\_, the ancient Roman God of seed time and harvest.
- Saturn has a very powerful \_\_\_\_\_ and sends strong radio signals.
- \_\_\_\_\_ Probe is launched in 1997 to descend into Saturn's atmosphere.

## Help List

6779 km, Mars, Olympus Mons, Cassini, Saturn, Saturnus, Magnetic field, 687, Mars Pathfinder, David McKay

## TEACHER'S NOTE

Assist students to know more about Solar System.

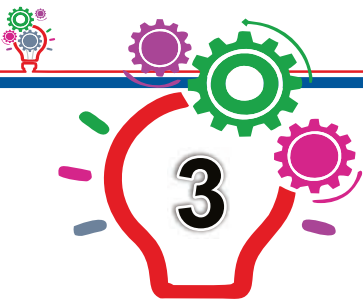


## Info-Bits

The distance covered by light in vacuum in  $1/299792458$ th of a second is called 1 metre.

## Let Me Answer

- Which planet is also known as ringed planet?
- Name any planet which has the largest volcano in the solar system.



# Green Magic

*Some plants are amazing due to their unique Characteristics.*

**Complete the sentences names and parts of plants with the help of the help list :**

1. Belladonna is obtained from \_\_\_\_\_ .
2. Quinine is obtained from \_\_\_\_\_ .
3. \_\_\_\_\_ are obtained from roots.
4. Opium is obtained from \_\_\_\_\_ .
5. \_\_\_\_\_ is obtained from cinchona plant.
6. \_\_\_\_\_ is the painkiller obtained from poppy plant.
7. \_\_\_\_\_ is obtained from deadly nightshade plant.
8. \_\_\_\_\_ is obtained from coca.



## Help List

Morphine, Bark, Roots, Ginseng,  
Cocaine, Seeds, Atropine, Quinine

### Let Me Answer

- a. Name any five trees or plants you see in your nearby park or garden.
- b. Which tree is known as the medicine tree?

### Info-Bits

Rauwolfia Serpentina or Sarpagandha is used as an antidote to the bites of poisonous reptiles like snakes.

### TEACHER'S NOTE

Help the students learn about various species of plants and trees. Tell them the importance and uses of trees and plants in daily life.



# Types of Farming

The environmental conditions of the world are highly variable. Here are some types of farming:



1.

**Co-Operative Farming :** In this system, the farmers form a society. The land of the members is pooled together and every member works on the farm.

**Extensive Agriculture :** This method is practised in countries which are sparsely populated and have abundant land. The agriculture operations are done by machines.

3.



2.

**Commercial Agriculture :**

This method has all the farm work done by machines. It is a large scale form of agriculture which is carried on mainly in the grass lands of the temperate regions.



4.



**Intensive Agriculture :** In this type of farming system, crops are grown mainly for local consumption. If there is a surplus, then it is sold in the market. This type of farming is largely found in densely populated regions of monsoon Asia.

5.



**Shifting Agriculture :**

Shifting cultivation is an agricultural system in which plot of land

are cultivated temporarily, then abandoned while post-disturbance fallow vegetation is allowed to freely grow while the cultivator moves on to another plot.

6.



**Plantation Agriculture :**

Plantation agriculture is a type of commercial farming where a single crop is produced in a very large estate using efficient and

scientific methods in tropical and subtropical regions. (Eg. Tea).

## Let Me Answer

- Which type of farming is most practised in India?
- Find out another name for intensive agriculture.

## TEACHER'S NOTE

Explain to the students about various types of farming. Use pictures to make the learning more enjoyable.



## In the garden

Help Ricky to go into the garden. Read the clues and find the words in the grid. Use the Help List for your reference.



### Clues

1. These wild plants harm other plants in a garden.
2. These are good for health and can be grown in your own garden too.
3. Plants need plenty of this to go get water and grow.
4. It is a cart with two handles and one wheel, used to move things around in the garden.
5. This gives warmth and light to the plants.
6. This is a healthy dish made of many raw vegetables.
7. In this season, a number of flowers bloom.
8. Trees, herbs, and shrubs are \_\_\_\_\_.
9. It is a tool with a long handle used to move soil, sand and dirt.
10. It is a sharp gardening tool which is dragged to loosen the soil before sowing the seeds.
11. It is the process of making a hole in the garden.
12. Plants get food and nutrients form here.
13. This is another name for a bucket.
14. These parts of the plant often small good.

### Help List

plants	sun	vegetables
rain	flowers	rake
weeds	shovel	salad
pail	dig	spring
wheelbarrow		soil



# Birds and Fishes

*One of the most important reasons birds migrate is to find warm weather, where plenty of food will be available to feed their offspring, or babies and also want to make sure their offspring have safe shelter.*

**Complete the name of these migratory birds.**

1. S\_\_BER\_\_ \_\_N CR\_\_NES are snowy white coloured birds and migrate during winter to India. These cranes are omnivorous and breeds in the arctic tundra of Russia and Siberia.
2. A\_\_UR \_\_ALCO\_\_S are small raptor that breed in Siberia and migrate to Southern Africa. During migration in large flocks across North East India and over the Arabian sea, they feed around Doyang Lake in Nagaland in the evening or early in the morning during the winter season.
3. European S\_\_AG\_\_L\_\_S migrate across a distance of thousands of kilometres to spend their winter in South Africa. They fly across the Sahara Desert and cover as much as 321 kms in a day.
4. The A\_\_CT\_\_C TE\_\_N is a migratory bird that flies more than any other species. It sees more day light than others as it moves from its Arctic breeding grounds to the Antarctic non-breeding areas.
5. The \_\_U\_\_FS birds start its journey from Arctic Tundra region to the Himalayas, however, once the breeding season comes around again they move back to the Tundra to repeat the cycle all over again.
6. \_\_L\_\_ET\_\_RO\_\_T starts its journey from Europe & Alaska because it cannot cope with the freezing winters in Europe or Alaska. So during the winters, it comes to India and be spotted easily in Rajasthan; They travels back home in April, and looks for mates as the breeding season beckons.



## Help List

**Amur falcons, Bluethroat, Seagulls  
Siberian Cranes, Arctic tern, Ruffs**

## Info-Bits

Humming birds are the smallest migrating birds. They can travel as fast as 48 kph when migrating. They fly non-stop, which can be as far as 600 miles.

## Let Me Answer

- a. Name a bird which spent the boreal winter in India.
- b. Can you name an omnivorous migratory bird?

## TEACHER'S NOTE

*Introduce the topic about various types of migratory birds. Assist them in understanding different species of fish.*



## Species of Fish

Fishes live in water, breathe through their gills, their body is covered by shiny scales and swim by swishing their fins and tails. There are many species of fishes.

Identify the different types of fishes with the help of the Help List :

1. It swallows water and increases in size to become too big to be swallowed. It is poisonous but eaten by people as a delicacy.



2. It has lacy, fan-shaped fins. It looks delicate but its spines are deadly poisonous.



3. It has a pencil shaped body encased in bony armour plates. The male incubates eggs in a pouch on his own body



4. It has a large head, big eyes, sharp teeth, a long tapering body and a rat-like tail.



5. It has dozens of tiny electricity sensing pits on its head. To hide from predators, it buries itself in the sand. It stays near the seabed.



6. It is the largest predatory fish that lives in warm oceans. It can grow more than six metres.



### Let Me Answer

- Which fish has a pencil-shaped body?
- Which fish gets puffed up with water to scare other animals?

### Help List

**Pipefish, Ratfish, Lionfish, Puffer fish, Shark, Ray fish**

### Info-Bits

There are currently more than 33,000 species of fish, including both salt water and fresh water species.