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Important Plants

Plant plays a very important role in our life. They give us many products. Let's see how much we know about plants.

Fill in the blanks with the help of the help list:

1. The chemical indicator, litmus, is prepared from the various species of _____.
2. The natural latex, balata, is obtained from _____.
3. The commercially used latex which is processed into rubber, is obtained from _____.
4. The oil which provides the base for enamels, paints and lacquers is _____.
5. Soya oil is obtained from _____.
6. Clove oil is obtained from _____.
7. The aromatic substance present in the mustard seeds is _____.
8. _____ is cultivated mainly for rapeseed oil which is used as a lubricant.



Let Me Answer

- Can you name the tree which is used to make cricket bats?

Help List

Sinigrin, Soyabean Plant, Lichens, Linseed Oil, Brassica Napus, Manilkara Bidentata, Eugenia Caryophyllata, Para rubber tree

Info-Bits

Auxins are growth hormones in plants.

TEACHER'S NOTE

Guide students to solve the exercise and encourage them to research more about useful plants and trees.



Geographical Terminology

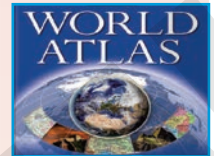
Some pictures are given in the help list. You can see some geographical features in it. Do you know about these? Let's figure it out.

- _____ is a steep high rock face, especially one that runs along the seashore and has the strata exposed.
- _____ is the outline of a mass of land, figure or body.
- _____ is a collection of maps, usually in the book form.
- _____ is a deep narrow valley with steep sides formed by water erosion or tectonic activity and often with a stream flowing through it.
- _____ is a triangular shaped land that forms at the mouth of a river.
- _____ is a steep rugged rock or peak.
- _____ is a long narrow inlet of the sea between high steep cliffs formed by glacial action.
- _____ is a large body of sea water that cuts into land and has a wide opening.
- _____ is the bowl-shaped opening at the top or side of a volcano.
- _____ is a small island that is circled by a reef and has a lagoon.
- _____ is a large elevated region with a flat top.
- _____ is a narrow strip of land that connects two larger landmasses and separates two bodies of water.
- _____ series of islands that are connected under water.
- _____ are large sheets of ice that move across land.

Help List



Canyon



Atlas



Bay



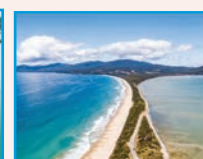
Cliff



Fjord



Archipelago



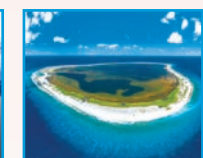
Isthmus



Delta



Glacier



Atoll



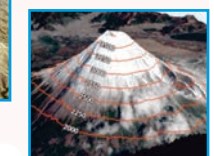
Crag



Plateau



Crater



Contour

Info-Bits

The Great Barrier Reef is the world's largest coral reef system and is located off the Coast of Queensland, Australia.

Let Me Answer

- Do you know the name of India's active volcano? In what location is it situated?

TEACHER'S NOTE

Guide students to understand the various geographical terms. Use pictures and examples to clarify the concepts.



World of Insects

Let Me Answer

- Do you know the name of the world's fastest flying insect?



There are various groups of insects present in nature. Let us learn about these creatures.

Fill in the blanks with the help of the help list:

- The _____ makes a drumming sound with its swim bladder.
- _____ is an insect which can survive at a temperature of -89°C in Antarctica.
- The largest native Australian worm is the _____, which normally has a length of about 2 to 3 meters.
- _____ can reach a speed of almost 100 km/hrs to escape from birds.
- _____ fish have light organs made by billions of bacteria which shine like a headlight.
- _____ flies can stand being frozen at a temperature of -60°C and still survive.
- The longest insect is a _____ that can reach a length of 33 centimetres.
- The colour of the skin of _____ is controlled by pigment cells called melanophores. They change colour as the animals changes its size.

Help List

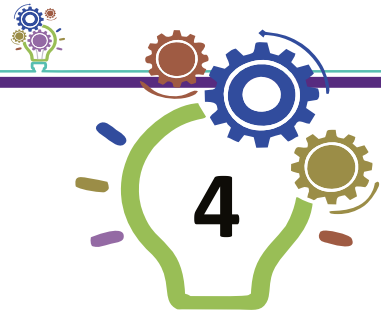
Drum Fish, Walking Stick, Alaskan, Dragonflies, Chameleon, Flashlight, Giant Gippsland Earthworm, Springtail

Info-Bits

The heaviest insect in the world is the Goliath Beetle from Africa.

TEACHER'S NOTE

Guide students to know about various insects. Use pictures to make understanding easy.



Wild Animals

Let's solve the exercise and try to know the wildlife.

Write the correct word with the help of the help list:

1. Offspring of a tiger and a lioness.

2. Offspring of a lion and a tigress.

3. Pen and ink animal.

4. The bird which shares its name with a shade of black.

5. The variety of cat with no tail.

6. The only snake to build a nest.



Let Me Answer

- Can you give the names of animals found in the polar region?

Help List

Liger, Manx, Tigon, Raven, King Cobra, Squid





Name the following animals with the help of the help list:

1. Animal with the thickest skin.
2. The slowest moving mammal.
3. The most successful and rapidly evolving mammal.
4. The most common primate in India.
5. Animal with the longest gestation period.
6. Animal with the shortest life-span.
7. World's most dangerous lizard.
8. The fastest fish in the world.
9. The bird which has longest wings of 3.3 m.
10. Animal that is the emblem of the World Wide Fund (WWF) for nature.

Info-Bits 🔍

Cheetahs are the world's fastest land animals, capable of reaching speed of up to 70 mph.



Help List

Mayfly, Gila Monster, Elephant, Giant Panda, Rhesus Monkey, Sail Fish, Mouse, Albatross, Whale Shark, Three toed sloth

TEACHER'S NOTE

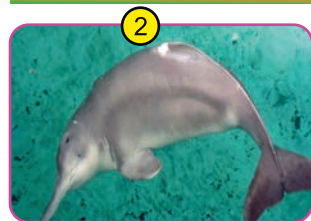
Help students to solve the exercise. Make them learn about the various animals found in the nature.



Nature And Extinct Creatures

Extinction is defined as the disappearance or dying out of a species from the earth.

- The _____ is one of the rarest birds in the world: it is estimated that there are only 177 captive individuals in the world. The species was declared extinct in the wild in 2000.



_____ also known as 'baiji,' was last seen in 2002. The baiji is the first dolphin species to become extinct due to humans.

Help List

Tasmanian wolf, Golden toad, Spix's macaw, Passenger Pigeons, Yangtze River dolphin, Dodo

The **thylacine** also known as _____ is an extinct carnivorous marsupial that was native to the Australian mainland and the islands of Tasmania and New Guinea. It was the largest known carnivorous marsupial in the world prior to its extinction, evolving about 2 million years ago. The last known live animal was captured in 1930 in Tasmania.



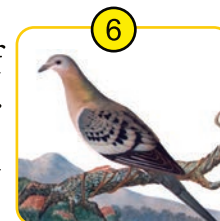
The _____ was last seen in 1989 in a Costa Rican rainforest before being declared extinct in 1994. It is believed that Chytridiomycosis, a fatal skin disease, decimated this toad population.



These chubby, flightless birds are called _____, were once alive and well in the forests of Mauritius. In 16 century, Dutch sailors arrived on the island and start hunting this brilliant bird. The main cause of the its extinction, however, was the animals the sailors brought with them, such as cats, pigs and rats—

they guzzled on its eggs and out-competed the birds for food, wiping them out by the 1680s.

Wisconsin was home to the largest known nesting site in the late 1800s of _____. The hunting activity by humans of these birds for their consumption is the main key to its extinction. The last known bird dying in captivity in the Cincinnati Zoo in 1914.



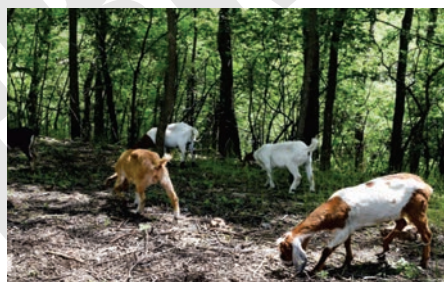
Info-Bits

'*Lepidodendron*' tree that could grow as tall as a football field is long and had diamond shaped leaves, is now extinct.



Fill in the blanks with the help of the help list:

1. The age of fish can be assessed by examining its _____
2. Animals that eat grass are known as _____
3. During pollination, pollen grains are deposited on the _____
4. The largest species of rat found in India is the _____
5. The creature which begins life as a male, then turns into female and alternates the rest of its life is _____
6. The best known species of flightless pigeons to have become extinct is the _____
7. Four major sounds produced by a dog are Bark, Growl, Whine and _____
8. Animals that eat leaves, twigs and young shoots are called _____
9. Animal family divided into 'bird-hipped' and 'reptile-hipped' species is the _____
10. In vertebrates, part of the body between 'thorax' and the 'pelvic girdle' is called the _____



Help List

Dodo, Stigma, Dinosaurs, Bandicoot, Yelp, Abdomen, Clown Fish, Grazers, Browsers, Scales

Let Me Answer

- Can you name any five birds that come under the extinct category?

TEACHER'S NOTE

Guide students to know about the various species. The use of pictures will be helpful. Also, tell them about the reasons for their extinction.



Nature Related Homophones

Some words have the same pronunciation but different spellings and meanings. These words are called homophones.

Choose the correct options to complete the statements.

1. In the Sunny Park, Kids Played with colourful _____.
2. Butterflies danced around vibrant _____.
3. Everyone gathered to watch the twinkling _____.
4. A family of ducks Paddled Peacefully in the serene _____.
5. Rohan was so excited to see a _____ at the zoo.
6. Children delighted in crafting intricate _____ art on the grass.
7. He had only one _____.
8. Nature's canvas painted the horizon with hues of breathtaking _____.
9. Friends set out on a nature hike, discovering hidden _____ along the way.
10. The distant call of a wise _____ echoed though the moonlit forest.



Let Me Answer

- Can you name five more examples of homophones? Give their meanings also.

Help List

Owl, Waterfalls, Kites, Flowers, Stars, Sunset, Pond, Leaf, Deer, Son

Info-Bits

"Homophone" is derived from Greek homo, i.e., "same", and phone, i.e., "voice, the utterance".

TEACHER'S NOTE

Help students to solve the above exercise. Make them aware of homophones. Use examples to make learning easy.



Biology Facts

Biology is the scientific study of life and living organisms. It is the study of various life forms and their relationships with the environment.

Complete the following with the help of the help list:

1. The study of beauty is called _____.
2. The strongest part in the body is the _____.
3. The study of dreams is called _____.
4. The fastest nerve impulse travels at _____.
5. The weight of the kidney is approximately _____.
6. The blood circulation inside the body takes approximately _____.
7. The human head contains _____.
8. The length of the small intestine is approximately _____ and its diameter is 2.5 centimetre approximately.
9. _____ is the only muscle attached at one end.
10. Penicillin is the antibiotic that is obtained from _____ fungus.

Info-Bits

The right lung is slightly larger than the left lung.

Help List

22 Bones, Penicillium, 150 grams, Tongue, 432 km/h, 60 seconds, Oneirology, Enamel, 7 metre, Kalology

Let Me Answer

- What is the name of the largest and smallest bones in the human body and where are they present?

TEACHER'S NOTE

Guide the students to understand the various biological facts. Make it interesting by giving some examples.