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Nature and its Institutions

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

1. The bulk of the is made from iron, oxygen, magnesium and silicon.
2. More than chemical elements occur naturally in the Earth and its atmosphere.
3. The is made mostly from oxygen and silicon.
4. The is made of iron and magnesium.
5. The is of iron, nickel and traces of sulphur, carbon etc.
6. Heavy elements like end up in crust because they easily react with oxygen and silicon to form compounds.
7. Earth has a unique shape called a it is not a perfect sphere.
8. Earth spins faster at than at the poles.

Let Me Answer

* Air is the mixture of _____, _____, _____, _____, and _____.

Help List

Geoid, Earth, Uranium, Ninety two, Core, Crust, Mantle, Equator

Info-Bits

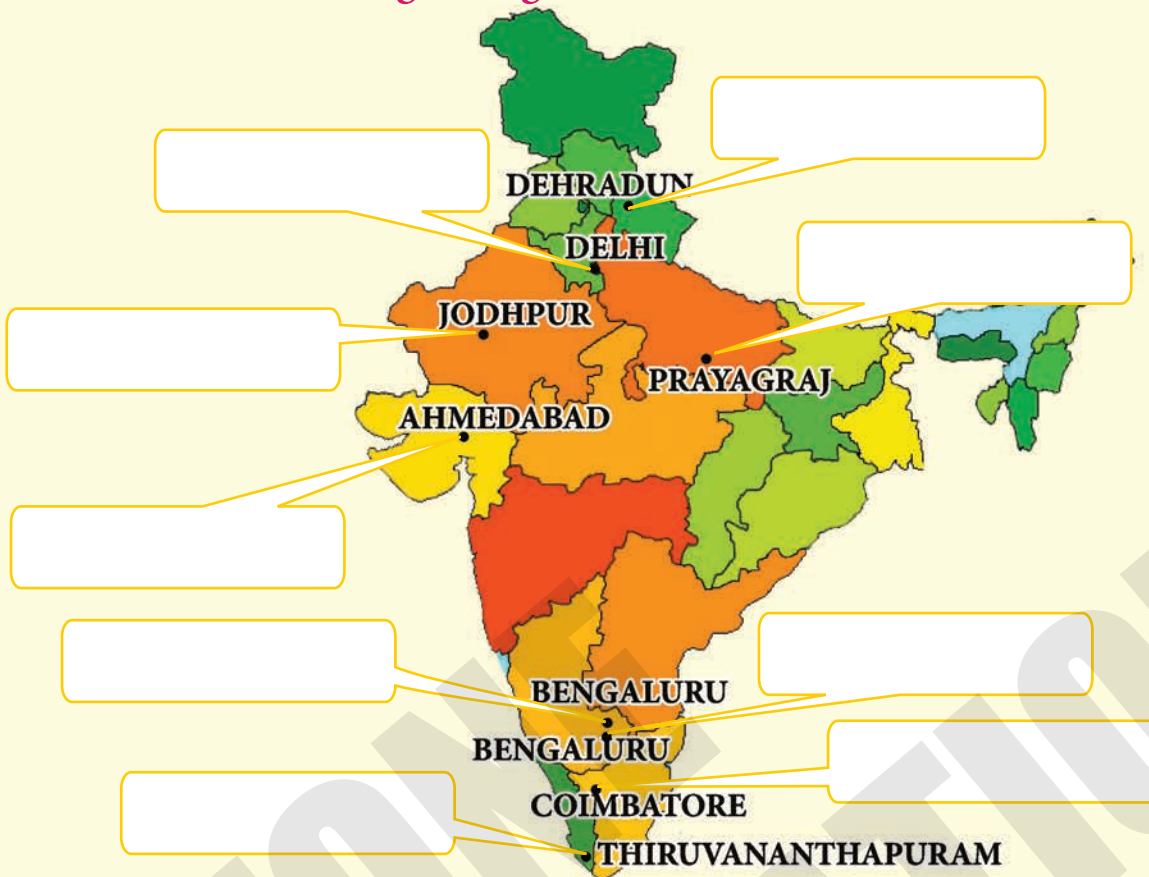
The Earth's diameter is 43 km larger at equator than at poles.

TEACHER'S NOTE

Motivate students to complete the exercises. Help them to understand different features of nature.



II. Mark the following ecological institutions of India



Let Me Answer

- * Have you ever been to any hill station? Name it.

Help List

Centre for Environment Education

CPR Environmental Education Centre

Centre for Ecological Sciences

Centre of Social Forestry and Eco-Rehabilitation

Centre for Ornithology and Natural History

Centre for Environmental Management of Degraded Ecosystems

Indira Gandhi National Forest Academy

Arid Forest Research Institute

Tropical Botanic Garden and Research Institute

Info-Bits

Both Zoological Survey and Botanical Survey of India have headquarters in Kolkata.



Ecology Talkies



Write True or False for the following statements:

1. Smoke from car, bus, etc. cannot cause air pollution.
2. Farmers' crop sprays, mining and volcanic eruptions can cause air pollution.
3. All the pollutants of the air are good gases.
4. Most fuels are chemicals called hydrocarbons.
5. Unburnt hydrocarbons react in strong sunlight to form ozone. They may create a photo chemical smog.
6. Air pollution is a major cause of global warming.
7. Air pollution does not have any effect on the ozone layer.
8. Air pollution is a cause for lung diseases.

Answer boxes for the statements, represented by empty hexagonal shapes:

1.

2.

3.

4.

5.

6.

7.

8.

Info-Bits

Benxi, a city in China, remains invisible to satellites because of smoke from factories.

Let Me Answer

* Name any disease caused by air pollution.

TEACHER'S NOTE

Explain to students the harmful effects of air pollution with the help of the given exercise.



Interesting Bugs

Read and learn about some interesting bugs :



Mosquitoes spread diseases like yellow fever, dengue and malaria. The female mosquitoes that bite animals and people are responsible for itching and irritation.

Termites are also known as 'white ants'. They have softer bodies and lighter colours than ants. They feed on dead plants, trees, and wood. They cause damage to furniture.



Lice are mainly of two types : chewing or biting lice and sucking lice. They usually grow on the human scalp, eyebrows and eyelashes. They feed on human blood. Their bites cause itching. An adult louse can live up to one month on a person's head.

Dragonflies have long and strong bodies. They are in many colours. They also have huge eyes. They are known for their quick movements and are among the fastest insects.



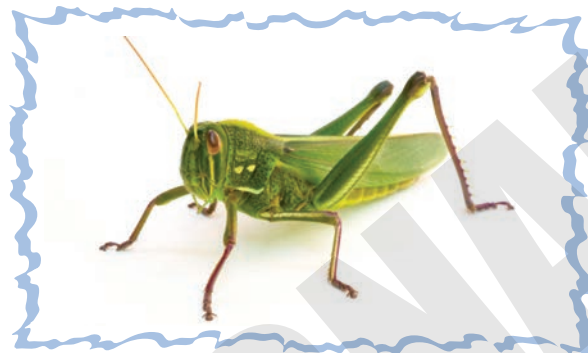
TEACHER'S NOTE

Introduce students to some amazing insects with the help of illustrations.



Spiders have eight legs. Their bodies are divided into two parts. They make silk webs to attract and catch other insects. They are found almost everywhere in the world.

Grasshoppers usually jump or crawl, but most kinds can fly. They eat only plants. They have antennae on their heads. They use them to touch and smell. They also have special eyes. They allow them to see in all directions at a single time.



Info-Bits

Ladybugs usually grow up to 8 to 10 mm long. They have short legs. They have bright-coloured bodies with black, yellow, or reddish markings. They only live up to four weeks.



Let Me Answer

* In which region in the world can spiders not survive?



Quiz Time

Can you identify these bugs? Choose the right answers from the help list given below.



Help List

Caterpillar

Cockroach

Honeybee

Ant



Birds

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

1. _____ are the biggest of the hunting birds, with wing span up to 2.5 m.
2. The _____ have been recorded diving at a speed of 320 km/hr.
3. The smallest parrot species are the _____ who average at about 8 cm in length.
4. _____ are large wading birds that hunt for fish in shallow lakes and rivers.
5. _____ lives in Eurasia in summers, and then migrates to Africa, India and China in the winters.
6. _____ are parrots which are white with feathered crests on their heads.
7. _____ is the biggest living bird, towering up to 2.75 m in height and weighing over 150 kg.
8. The _____ penguin is the biggest swimming bird up to 1.2 m tall and weighing over 40 kg.

Help List

Falcons, Emperor, Herons, White Stork, Pygmy Parrots, Eagles, Cockatoos, Ostrich

Info-Bits

The Elephant bird of Madagascar was the biggest bird, growing up to 3 m tall (now extinct).

TEACHER'S NOTE

Motivate students to learn amazing facts about various incredible birds using the exercise.