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Mind Power

Put your 'mind over matters'. Read carefully and use the following expressions in the given sentences.



EXPRESSIONS	
a.	two minds
b.	in the mind
c.	mind_tongue
d.	mindful
e.	mindless
f.	out of_mind
g.	not mind
h.	make up_mind
i.	on_mind
j.	mind you



- How can you go out in this heat? You must be _____ your _____.
- Please hurry up and _____ your _____ about what you want to do.
- I am very busy. I have a lot _____ my _____.
- Please do _____ as I have to leave the party now.
- _____, all that you say can be used against you in the court.
- _____ your _____, think before you speak!
- I am in _____, to go to the US or to Australia!
- It is all _____, so try to be strong.
- _____ of all the work he was doing, his boss gave him a promotion.
- _____ of all the harm he would cause, the woodcutter cut down the tree.



I DON'T HAVE A MIND TO MIND.
DO YOU MIND?

▶ Which 'City' Are You In?

The suffix 'city' forms some powerful Abstract Nouns that express a quality in brief. Try to build some 'city' words using the following hints. First one is done for you.

1. elastic or stretchable *e l a s t i c i t y*

2. the quality of being simple _____ city

3. scarce or less in supply _____ city

4. wise or sagacious _____ city

5. ratio of distance and speed _____ city

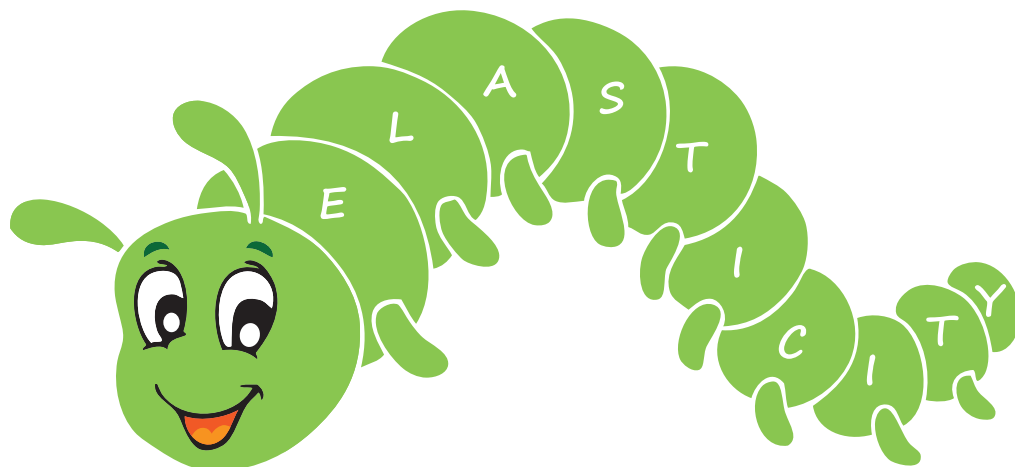
6. vivacious or full of life _____ city

7. quality of being bold or audacious _____ city

8. ability to hold or store _____ city

9. toxic or poisonous _____ city

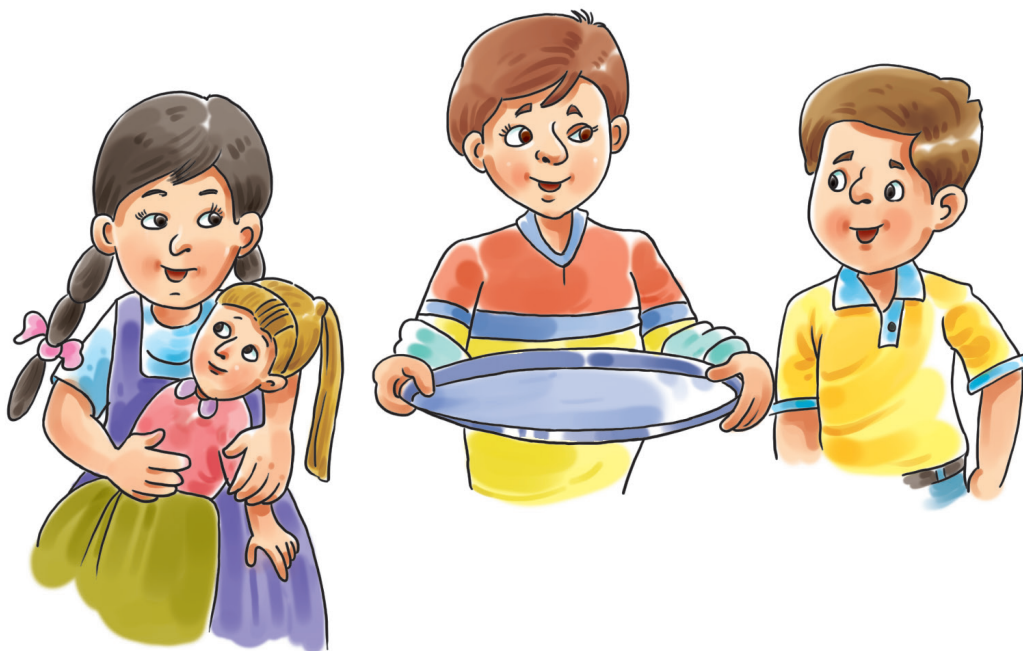
10. to make it public or open _____ city



► It's Never Too Late!

True indeed! It is never too late to recapitulate the vocabulary words. So start off finding the words with 'late' using the following hints.

1. fill in air l a t e
2. to tell l a t e
3. move like a pendulum l a t e
4. to feel very happy l a t e
5. to express in a formula l a t e
6. to use to one's own advantage l a t e
7. a dish for serving food l a t e
8. to specify or lay down time l a t e
9. to arrange in proper sequence l a t e
10. to keep changing one's mind l a t e



Maze of Words

Our speech has words that express our feelings in various ways. Given below are some words. Their synonyms are hidden in the maze. Find them from the maze and write in the space provided. One is done for you.

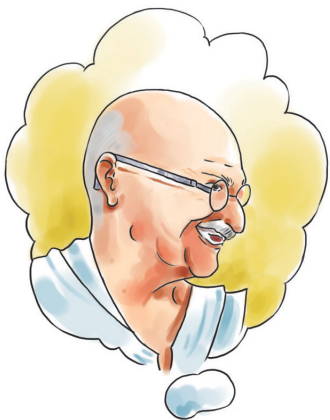
a	g	a	t	a	l	k	a	b	a	n	b
a	r	a	o	b	s	t	r	u	c	t	b
g	o	s	s	i	p	b	n	g	l	o	w
a	w	a	b	b	b	b	o	a	b	b	b
a	c	o	n	c	e	n	t	r	a	t	e
i	b	g	l	e	a	m	i	h	b	b	b
m	b	a	b	a	a	a	c	i	s	b	p
p	r	o	m	o	t	e	e	n	h	a	o
r	e	f	l	e	c	t	b	d	i	a	n
o	b	s	e	r	v	e	b	e	n	a	d
v	b	e	b	l	o	c	k	r	e	a	e
e	b	e	x	p	r	e	s	s	a	a	r

1. develop grow _____ _____
2. speak _____ _____ _____
3. think _____ _____ _____
4. twinkle _____ _____ _____
5. look _____ _____ _____
6. stop _____ _____ _____

Indian Roots

Many Indian words are used in English and there is no denying that they have acquired great importance in English language. Read the given hints and then unscramble the letters to get the correct Indian word.

- | | |
|--|---------|
| 1. an officer | ahsib |
| 2. work or duty | armka |
| 3. an expert or a spiritual leader | uugr |
| 4. a spicy Indian dish | urrcy |
| 5. a poor man (may be religious) | akfir |
| 6. oven for roasting raw food | andtoor |
| 7. a sure formula for success | aamntr |
| 8. salvation or freedom of soul from suffering | oksmha |
| 9. a scholar or a priest | tinupd |
| 10. system of exercises based on Hindu philosophy. | agyo |



? DO YOU KNOW?

Mahatma Gandhi, the 'Father of the Nation', used impressionable words like '*ahimsa*', '*satya*', '*swaraj*' which have found a permanent place in English language.



▶ Quotable Quotes

The famous quotes of great men leave an everlasting impression on our minds. Here are some unforgettable words. Ponder upon them and guess who could have said them. Take help from the Help Box.

1. *Genius is one per cent inspiration and ninety nine per cent perspiration.*

2. *The child is the father of man.*

3. *Some books are to be tasted, others to be swallowed and a few to be chewed and digested.*

4. *A thing of beauty is a joy forever.*

5. *Early to bed and early to rise, makes a man healthy, wealthy and wise.*

6. *Whatever you are, be a good one.*

7. *Be the change you want to see in the world.*

8. *It's our choices that show what we truly are, far more than our abilities.*

9. *It's fine to celebrate success, but it's more important to heed the lessons of failure.*

10. *We did not come here to fear the future, we came to shape it.*

Help Box

Mahatma Gandhi	Abraham Lincoln
J. K. Rowling	Bill Gates
Barack Obama	Francis Bacon
Benjamin Franklin	Thomas Edison
William Wordsworth	John Keats



Variant Verbs

A. A 'verb' is the life and soul of a sentence. Verbs have a great variety of usage, according to the different situations. Try your hand at joining the verbs with proper objects given in the Help Box.

Verbs	Objects
1. <u>Solve</u> a	
2. <u>Compose</u> a	
3. <u>Frame</u> a	
4. <u>Strike</u> a	
5. <u>Appear</u> in an	
6. <u>Conduct</u> an	
7. <u>Regulate</u> the	
8. <u>Verify</u> a	



Help Box	
orchestra	mystery
song	traffic
picture	pose
examination	statement

B. Unscramble the given letters and write the correct word in the space provided. You will find that all these are verbs.

1. _____ a crime	omcimt
2. _____ a tantrum	hotrw
3. _____ a plan	evidse
4. _____ a knot	eit
5. _____ a secret	peke
6. _____ a file	opcy



▶ Writings of Great Men

Many great men have penned down immortal works sharing their invaluable experiences. Here are some very well-known titles of books. Use the Help Box to write the correct name of the authors against the books written.

Books	Authors
1. <i>Train to Pakistan</i>	_____
2. <i>The Home and the World</i>	_____
3. <i>Playing It My Way</i>	_____
4. <i>My Country My Life</i>	_____
5. <i>Wings of Fire</i>	_____
6. <i>Business @ The Speed of Thought</i>	_____
7. <i>The Boy Billionaire</i>	_____
8. <i>The Blue Umbrella</i>	_____
9. <i>Making India Awesome</i>	_____
10. <i>Immortals of Meluha</i>	_____

Help Box

Sachin Tendulkar	Mark Zuckerberg	Rabindranath Tagore	APJ Kalam
Chetan Bhagat	Khushwant Singh	L.K. Advani	Bill Gates
Amish Tripathi		Ruskin Bond	



DO YOU KNOW?

Sahitya Academy, set up by Government of India on March 12, 1954, co-ordinates all literary activities of Indian languages. It works actively for the development of high literary standards. It awards Indian authors for their outstanding books in major Indian languages. 'Bhasha Samman' and 'Translation Prizes' are also given to the deserving contributors.

Pertinent Proverbs

The proverbs have always provided valuable advice. Their message holds true for both the young and the old. Read the incomplete proverbs and match them with their correct endings.

- | | | |
|------------------------------------|---|---------------------------------|
| 1. Cleanliness is _____ | ▶ | ◀ a. the tough get going. |
| 2. Hope for the best but _____ | ▶ | ◀ b. mightier than the sword. |
| 3. Fortune favours _____ | ▶ | ◀ c. there is a way. |
| 4. When the going gets tough _____ | ▶ | ◀ d. wait for no one. |
| 5. The pen is _____ | ▶ | ◀ e. be prepared for the worst. |
| 6. Better late _____ | ▶ | ◀ f. like the present. |
| 7. A picture is worth _____ | ▶ | ◀ g. louder than words. |
| 8. There is no place _____ | ▶ | ◀ h. like home. |
| 9. Actions speak _____ | ▶ | ◀ i. is next to godliness. |
| 10. There is no time _____ | ▶ | ◀ j. the brave. |
| 11. Where there is a will _____ | ▶ | ◀ k. than never. |
| 12. Time and tide _____ | ▶ | ◀ l. a thousand words. |



▶ Animal Expressions

The animal expressions are often used for real-life situations. Here are given some animal expressions. Match them correctly with their true meanings.

- | | | |
|---------------------------|---|--|
| 1. a bull in a China shop | ▶ | ◀ a. moving very slowly. |
| 2. a snake in grass | ▶ | ◀ b. a stupid person not knowing the true value of things. |
| 3. a dark horse | ▶ | ◀ c. a cunning person among innocents. |
| 4. a wild goose chase | ▶ | ◀ d. cleverly hidden. |
| 5. pearls before a swine | ▶ | ◀ e. one who brings bad name to his family, etc. |
| 6. at a snail's pace | ▶ | ◀ f. a great bundle of troubles and problems. |
| 7. cat among pigeons | ▶ | ◀ g. one who destroys things. |
| 8. hornet's nest | ▶ | ◀ h. chasing with determination and speed. |
| 9. horse sense | ▶ | ◀ i. a place of the powerful person. |
| 10. lion's den | ▶ | ◀ j. common sense. |



▶ What's the Word?

People are often identified and known for their peculiar habits, behaviours or characteristics. Choose and write, one word for the people with the given characteristics, using the Help Box.

1. an ambitious and a successful person
2. a lazy person who loves watching the TV
3. a skilful young person
4. a person or an expert obsessed with something
5. an organiser of commercial enterprise involving risk
6. a person who is addicted to the computer
7. a person having extreme opinion or obsession about religious beliefs, etc.
8. a person who is an expert at business deals
9. a 'duplicate' who is made genetically similar
10. a person who traps animals illegally

Help Box

wheeler dealer	whiz kid	computer bug	entrepreneur
couch potato	fanatic	poacher	high-flyer
geek	clone		



DO YOU KNOW?

Mnemonic is a tool to help remember facts or large amount of information.

It can be in form of a song, rhyme, phrase, etc., to list the facts in certain order. For example—
RICE – It explains how to treat a sprain as – Rest injured area, Ice the sprain, Compress with bandage and Elevate the injured area.

ACTIVITY

Find some mnemonics or invent them yourself.

Valuable Values

Read the following situations and write the values displayed.

1. The students of Class-VII saluted the national flag and pledged to do their best for their country.

P _ _ _ _ _ M

2. Every day, before going home, the students switch off the lights and fans.

E _ _ _ _ Y C _ _ _ _ _ N

3. The students enjoyed celebrating their 'Annual Day' with traditional songs and dances from different states of India.

U _ _ _ Y I _ D _ _ _ _ Y

4. The students always ensure that water taps are closed after use, specially during the recess time.

W _ _ _ R C _ _ _ _ _ N

5. The monitor of the class stopped his/her classmates from tearing paper and making paper balls or aeroplanes.

S _ _ E P _ _ _ R

6. The students prepared a time-table, allocating proper time for each subject in order to revise thoroughly for their exams.

T _ _ E M _ _ _ _ _ T

7. The Headboy and the Headgirl of the school led the students' rally around the neighbouring areas about 'clean city – green city'.

L _ _ _ _ _ P

8. All the students of Class-VII, gathered in the school garden and helped the teachers to distribute the important circular for the school function.

C o - o _ _ _ _ _ N

Fact File

R. K. Narayan

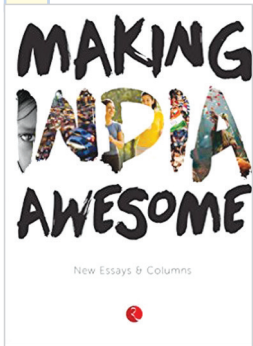
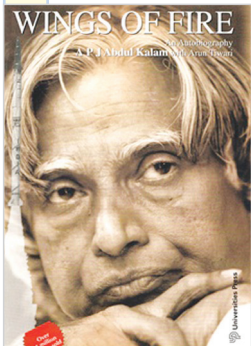
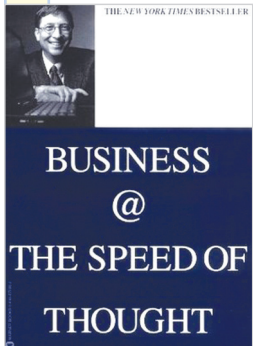
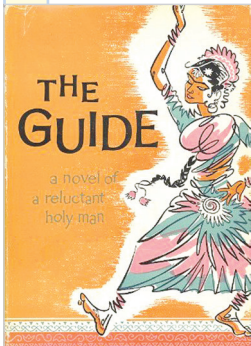
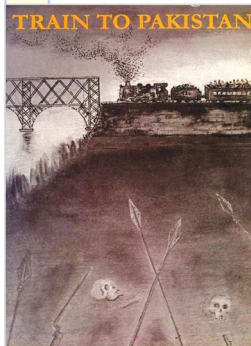


(10 October 1906 – 13 May 2001)

- ▶ Rasipuram Krishnaswami Iyer Narayanswami – R. K. Narayan was a renowned author.
- ▶ He was born in Chennai. His father was a school headmaster.
- ▶ He spent a lot of his childhood time with his grandmother enjoying listening to her stories.
- ▶ He was an avid reader and his favourite authors were - Charles Dickens, A. C. Doyle, Thomas Hardy, etc.
- ▶ In 1926, he completed his studies at school and then joined the Maharaja College, Mysore.
- ▶ He worked as a school teacher for a while and then took up writing as a profession. He wrote stories, which were illustrated by his famous brother, R. K. Laxman; and were published in *The Hindu*.
- ▶ His stories are widely read and appreciated for their simple and interesting narration.
- ▶ He wrote his first novel, *Swami and His Friends*, in 1930 and created an imaginary town of 'Malgudi'. This novel was published in 1935 on the recommendation of his friend, Graham Greene.
- ▶ His other famous novels are – *Bachelor of Arts*, *The Dark Room*, *The English Teacher* and *Malgudi Days (Collection of Short Stories)*.
- ▶ In 1958, his novel, *The Guide*, became very popular and was later made into a major hit film. An Indian television serial *Malgudi Days* was also based on his famous novel.
- ▶ He received 'Padma Bhushan' in 1964, 'Sahitya Academy' Award in 1958, A C Benson Medal for Journalism in 1980. He was nominated as a member to the Rajya Sabha.

Test Your Wisdom

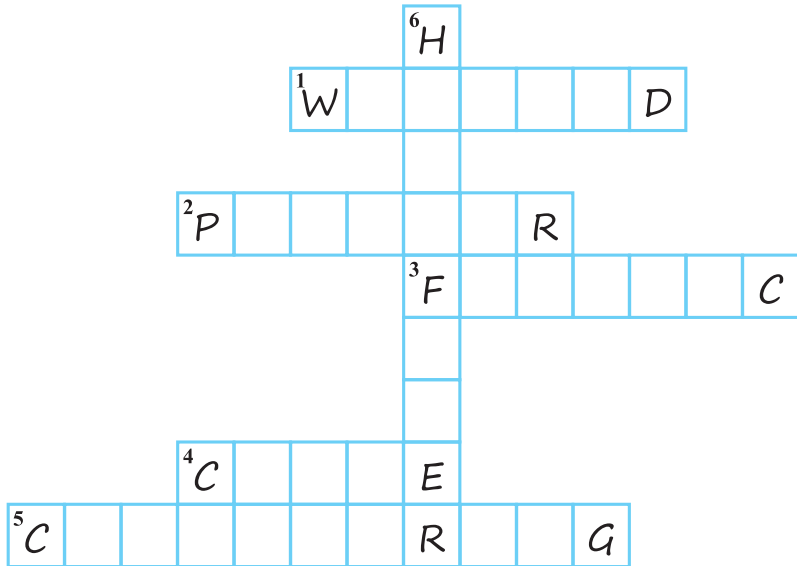
1. The authors of the following books have been mis-matched. Write them correctly.

a.	b.	c.	d.	e.
				
R.K. Narayan	Chetan Bhagat	Khushwant Singh	Bill Gates	APJ Kalam
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

2. Fill in the crossword with the help of clues given—

Across →

1. A skilful young person –
2. One who traps animals illegally –
3. A person with extreme opinion –
4. A genetically similar living being –
5. A person addicted to computer –



Down ↓

6. A successful person with ambition –

3. Write the meanings of the following:

- a. *mantra* _____
- b. *fakir* _____
- c. *guru* _____
- d. *moksha* _____
- e. *karma* _____
- f. *pundit* _____

4. Explain the following:

- a. At a snail's pace _____
- b. A dark horse _____
- c. Hornet's nest _____
- d. A bull in a China shop _____
- e. A cat among pigeons _____
- f. Lion's den _____

5. Complete the following with suitable words.

- a. My father is a calm person. He is always as cool as _____
- b. My friend could not complete his work on time. He was as slow as _____
- c. The Managing Director of the company is always as busy as _____
- d. After my exams, I felt as free as _____
- e. On seeing the policeman, the thief ran as quick as _____
- f. The water in the swimming pool was as clear as _____

6. Write the words starting with 'ph' using the hints.

a. a fear is a

ph

b. a ghost is a

ph

c. an expression is a

ph

d. body structure is called

ph

e. a picture taken with camera

ph

f. a copy of a document

ph

7. Use double letter words and the hints to form the answers.

a. opposite of sweet

t t

b. to praise in excess

t t

c. spoiled, decaying

t t

d. hand-gloves for small children

t t s

e. opposite of a loser

n n

f. an entrance or route

s s



▶ Environs

Given below are the abbreviations related to environment. Write their full form using the Help Box given.

1. AAQ

2. ACF

3. BOH

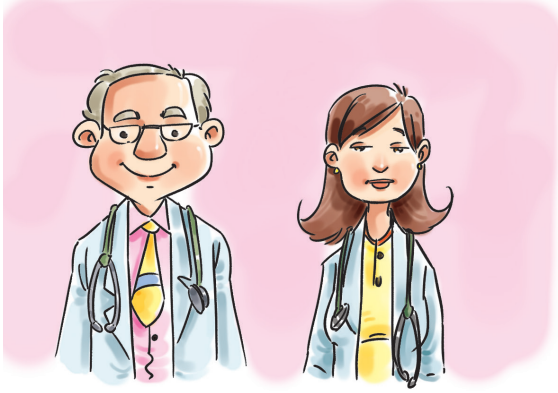
4. CFC

5. DAD

6. HAP

7. IRAP

8. QA



Help Box	
Board of Health	Advanced Air Quality
Chlorofluorocarbon	Activated Carbon Filter
Dead and Decomposing	Hazardous Air Pollutant
Immediate Response Action Plan	Quality Assurance

Steps to Fame

Given below are the brief descriptions taken from the great works of some famous scientists. Read them carefully. Use the Help Box to name the scientist.

1. He was the first to produce electricity by hanging a dead frog on the iron railings with copper hooks. G _____
2. He was inspired by a swinging church lamp which led to the invention of pendulum clock. G _____
3. He accidentally spilled some rubber, sulphur and lead onto a stove resulting in rubber, resistant to heat and cold. C _____
4. He made the greatest discovery by growing peas and formulated the laws of hereditary, i.e. passing on of characters from one generation to another. M _____
5. He made a famous discovery while being in his bath tub and gave the famous principle. A _____
6. He, while trying to make a better refrigerator, accidentally invented teflon, that is used in 'Non stick' utensils. R _____
7. He made the discovery after learning about night writing which proved a boon to the blind. L _____
8. He accidentally discovered sweetener when he forgot to wash his hands before lunch after working in Johns Hopkins lab. C _____
9. He observed the blacksmith at work and came out with a musical scale using different sized hammers. P _____
10. He was a navy radar specialist who felt that the chocolate bar in his pocket started melting in front of microwave emitters and this led to the invention of microwave. P _____

Help Box

Louis Braille	Charles Good Year	Pency Spencer	Galileo
Pythagoras	Roy Plunkett	Mendel	Galvani
Archimedes	Constantine Fahlberg		



DO YOU KNOW?

Night writing is a method of sending secret messages by punching dot marks on thick papers which can be read by people in dark with their finger tips.

Gadgets Galore

Many scientific devices and gadgets have been invented which help us to make accurate measurements. Read the information given below and unscramble the letters to find out some of these gadgets.

Clue: Most of these gadgets end with 'meter'.

1. It is used for measuring long distances accurately.

ERDOMGEEIT

2. It is used for measuring electric current.

EMMTREA

3. It is used for measuring atmospheric pressure.

MBEAETROR

4. It is used for measuring small amount of electric current.

AEGMLOVNTAER

5. It is used to measure the amount of water vapour in the air.

MHYOGETER

6. It is used to detect the presence of impurities in milk.

EMOTTCALER

7. It is used for measuring magnitude and direction of a magnetic field.

RMTMAEQNTEEO

8. It is used to measure the wind speed.

TMOAMNEER

9. It is used to find the radius of a sphere and to find the exact measurement of the thickness of small bodies.

HEMRSOPTERE

10. It is an instrument used for measuring very small distances or dimensions.

IMOEMTCRER



DO YOU KNOW?

The instrument used for measuring blood pressure is called **Sphygmanometer**.

▶ Endangered Birds

Given below are the pictures of some endangered birds of India. Identify them and write their names using the Help Box.













Help Box

Sarus Crane

Oriental Stork

Bengal Florican

Forest Owllet

Long billed Vulture

Himalayan Quail

An Atmosphere of 'Spheres'

There are many words in scientific vocabulary which end with 'sphere' although they have no link with the spherical shape. Given below are the clues which describe these 'sphere' ending words. Use the Help Box and write the correct word for each description given.

1. An imaginary line, called equator, divides the earth into two halves.

2. The waters of earth's surface.

3. A spherical strong steel vessel used for deep sea observation.

4. A layer of atmosphere extending 1000 km above the surface of the earth which reflects radiowaves.

5. The upper layer of the earth's mantle, whose capacity for gradual flow is thought to give rise to continental drift.

6. The regions of the earth's crust and atmosphere occupied by living organisms.

7. The crust of the earth.

8. The layer of atmosphere nearest the earth in which weather changes occur.

Help Box

Hydrosphere

Biosphere

Hemispheres

Lithosphere

Troposphere

Asthenosphere

Bathysphere

Ionosphere

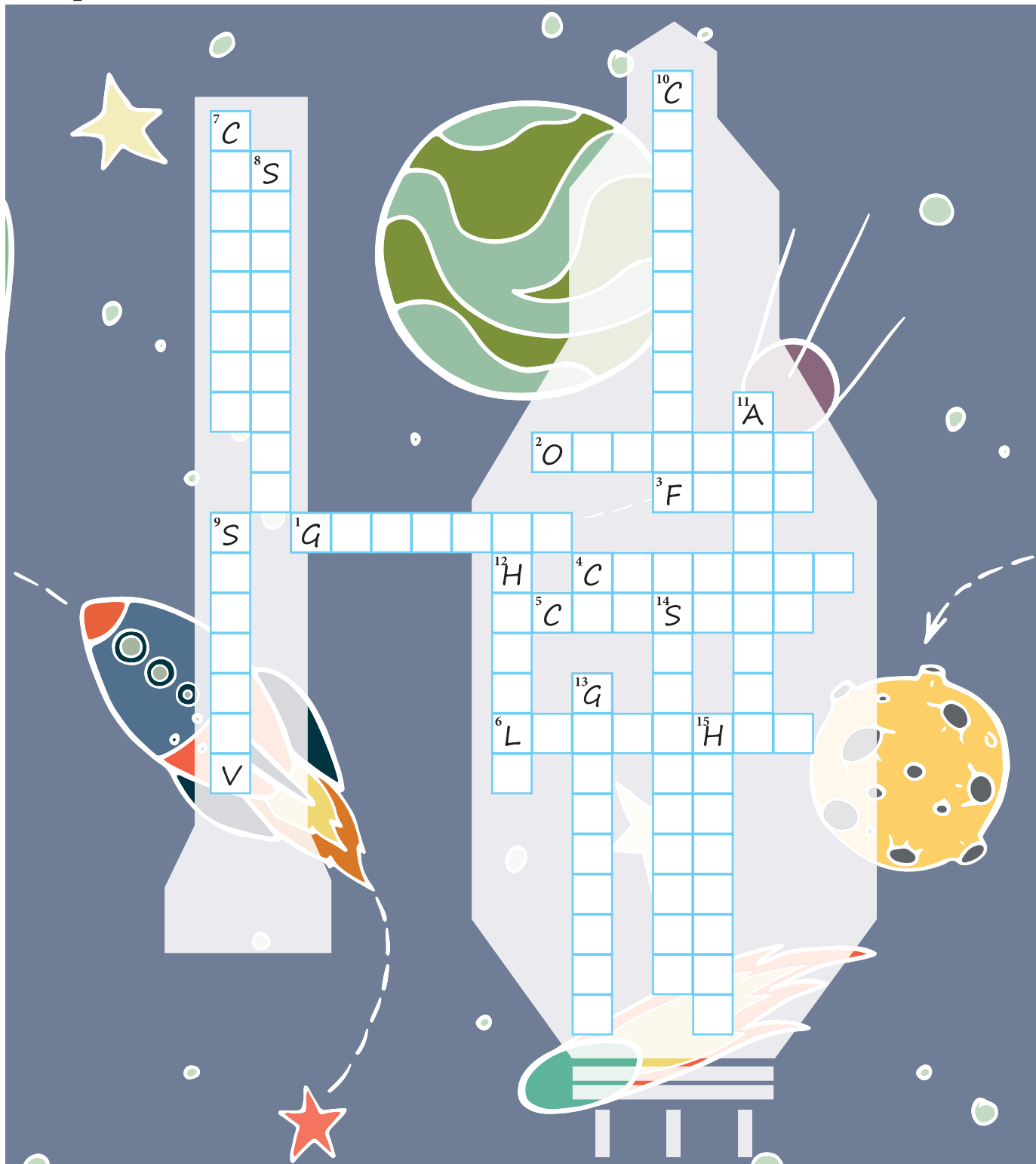


? DO YOU KNOW?

The thin hydrogen layer above the visible surface of the sun, known as **Chromosphere**, has the temperature of about 1000° Celsius.

Blasting into Space

Outerspace has always fascinated man. With the advancement in science, man can even go into the space shuttles and space crafts. Solve the following crossword puzzle, with the help of clues, to have a better understanding of space and space vehicles.



Clues:

Across →

1. It is exerted by the earth which makes getting into space difficult.
2. A small sealed and pressurised cabin, with an acceptable environment, often used for sending men or animals into space.
3. It is known to be the most dangerous hazard in space flight.
4. It is in front of the orbiter in a space shuttle where the crew members work and live.
5. It is detachable compartment of a space craft.
6. A device designed to supply and hold a missile in position for firing.

Down ↓

7. This space shuttle got disintegrated into pieces while re-entering the earth's atmosphere on 1 February 2003.
8. A garment designed to allow an astronaut to survive in space.
9. This is the biggest rocket ever built.
10. It is a check up time before a space craft is launched from the earth.
11. On successful re-entry into the earth's atmosphere, the orbiter flies like an
12. This is the powerful space telescope launched by America in 1990.
13. It is the fuel used in the rockets, set off by Chinese soldiers, about 700 years ago.
14. It is a space craft, sent on missions, to study various bodies in the solar system.
15. It is used as a fuel along with liquid oxygen in a space shuttle.



Explore the Sciences

There are different branches of science dealing with different fields. Read the given descriptions carefully and unjumble the letters to get the correct answer.

1. Science concerning the study of movement of objects through air.

ANEORUTCIS → _____

2. Science governing travel in space.

ATSORANUITCS → _____

3. Science that deals with the study of spread of disease in a large population.

EIPEMDIOOLGY → _____

4. Science that deals with the possibility of life outside the earth.

EOXIBOOLGY → _____

5. Biological science which deals with the study of structure of tissues.

OLOSIGYHT → _____

6. Science and technology that deals with making and working of different types of robots.

TBOROICS → _____

7. Science which deals with occurrence, location and properties of earthquakes.

OEISMSLGOY → _____

8. Science which deals with the study related to efficient use of human energy.

MICSEGRONO → _____

9. Science that deals with the causation of a disease.

GLOYTIE → _____

10. Science which deals with passing on of characters from parents to their offsprings.

ENEGTCIS → _____

Dreaded Diseases

Health is wealth but sickness is a curse. Good health is necessary for our purposeful existence in the world. Given below are the descriptions of some diseases affecting a particular part of the body. Using the Help Box, find and write the names of the diseases in the space provided.

1 It is a disease affecting brain causing problems with memory, thinking and behaviour.

2 It is a disease in which the patient cannot distinguish between red and green colour.

3 In this disease, there is bleeding from swollen gums which leads to loosening of teeth.

4 In this disease, upper respiratory tract is affected and initial symptoms indicate common cold, sore throat and high fever.

5 It is a viral disease with fever and jaundice, transmitted by mosquito and is often fatal.

6 It is a disease in which muscles become weak.

7 It is a fungal foot condition affecting the skin between the toes.

8 It is a disease that makes bones easy to break.

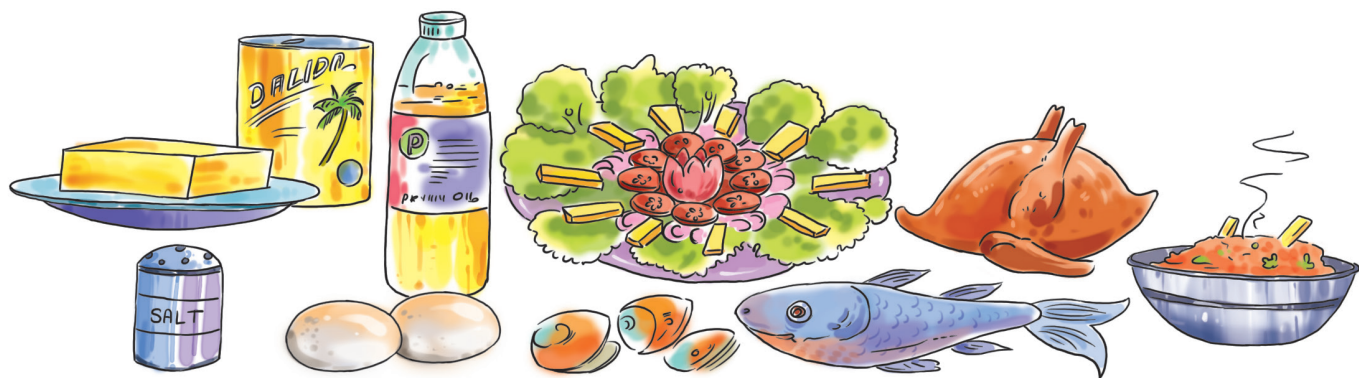
Help Box
Severe Acute Respiratory Syndrome (SARS)
Athlete's foot
Osteoporosis
Myopathy
Alzheimer
Colour Blindness
Yellow Fever
Pyorrhoea

1. _____	5. _____
2. _____	6. _____
3. _____	7. _____
4. _____	8. _____

Way to Health

A balanced diet contains all the nutrients in appropriate quantity that our body requires. Given below are some rich sources of food. Choose and write the correct components from the Help Box for these sources. One is done for you.

Sources	Components
1. Yellow vegetables, green leafy vegetables, tomatoes, butter, egg yolk	Vitamin A
2. Cereals, beans, lentils, vegetable leaves, spinach, apple, dried peach, pomegranate, jaggery	
3. Yeast, soyabean, germinated pulses and cereals, milk, enriched flours	
4. Butter, ghee, oil, margarine	
5. Salad, whole grains and cereals, green leafy vegetables	
6. Common salt, sea foods	
7. Common salt, meat, fish, poultry, egg, milk	



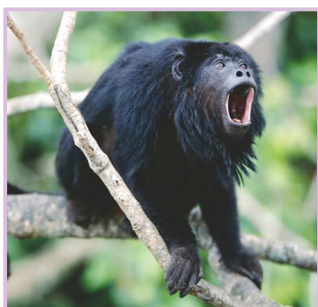
Help Box

Fats	Sodium	Iodine	Roughage	Vitamin B	Vitamin A	Iron
------	--------	--------	----------	-----------	-----------	------

World's Toppers

Given below are the extraordinary features of some animals. Read these features carefully and write the name of the animal using the Help Box.

1. A long arm animal.
2. The strongest animal.
3. The loudest voice animal on land.
4. The largest brain animal in proportion to its body.
5. The venomous animal.
6. The largest carnivore.
7. The longest jumper.
8. The animal with longest period of hibernation.
9. The smallest mammal.
10. The largest ape.



Howler Monkey



Snow Leopard



Rhinoceros Beetle



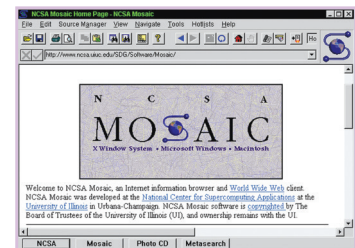
Marmot

Help Box			
Rhinoceros Beetle	Gibbon	Ant	Howler Monkey
Gorilla	Snow Leopard	Marmot	Adultbumblebee
Single Box Jelly Fish		Southern Elephant Seal	

▶ Electronic Brain Game

Computers have captured almost every field of life. They have made our life comfortable with their amazing speed, reliability and accuracy. Fill in the blanks using the words given in the Help Box.

1. A _____ is a small memory device, which is used to store data from a computer or a digital camera. It is removable and rewritable also.
2. RAM, ROM and _____ are the three kinds of memories of computer.
3. The engineers who developed IBM PC were known as _____.
4. _____ is the brain of a home computer.
5. Through _____ we are able to draw interesting pictures.
6. _____, originally, was a printed bookseller company, now sells more e-books than printed ones.
7. _____ is a skilled computer user that accesses others' mail.
8. _____ was the first popular web browser which was released in 1993.
9. A computer dedicated to sending and receiving faxes for a group of networked computers is known as _____.
10. _____ was the first electronic and commercial digital computer which can perform calculations at high speed.



? DO YOU KNOW?
 Sweden has the highest percentage of Internet users, i.e. 75 per cent.

Help Box

ENIAC	CPU	Hacker	Dirty Dozen	Pen Drive
Amazon	LOGO	Storage	Fax Server	Mosaic

Buzz Zone

Sounds in our environment produce both good and bad effects. Fill in the following blanks using the words given in the Help Box.

1. Sound made by a movement backwards and forwards is called _____ .
2. The number of times a sound vibrates in one second is called its _____ .
3. Frequency of a sound measured in units is called _____ .
4. Sounds which have a frequency of over 20,000 Hz are called _____ .
5. When a loud sound bounces off a hard surface in an enclosed space, it makes an _____ .
6. Aircraft that goes faster than the speed of sound are called _____ .
7. The loudness of sound is measured in units called _____ .
8. Sounds _____ 100 decibels can damage the ear.
9. _____ is the degree of highness or lowness of a tone.
10. Any sound that is unpleasant to a person is _____ .



Help Box

noise	echo	decibles	hertz	vibrations
supersonic	greater than	pitch	frequency	ultrasonic

Fact File

Dolphins

Dolphins are mammals, which can swim up to 260 m below the surface of the ocean.

Dolphins are extraordinarily intelligent animals who also display culture.

Dolphins can stay 15 minutes under water but they cannot breathe there. They can also jump as high as 20 feet out of the water.



Dolphins can communicate through sounds and whistles.

Dolphins use echo location to find food and navigate.



The largest dolphin is the 'Killer Whale' and the most known dolphin is the 'Bottlenose' dolphin.

Dolphins are altruistic animals. They are known to stay and help injured individuals, even helping them to the surface to breathe.

Test Your Wisdom

1. Fill in the blanks.

- a. _____ invented pendulum clock.
- b. _____ is the unit for measuring the frequency of sound.
- c. Tomatoes are the richest source of _____ .
- d. _____ is the crust of the earth.
- e. _____ is the science of governing travel in space.

2. Encircle the correct option.

- a. Ultrasonic sounds have frequency more than 10,000 Hz/20,000 Hz.
- b. Dolphins are mammals/reptiles.
- c. Howler Monkey/Gorilla is the loudest voice animal on land.
- d. Butter/Yeast contains fat.
- e. Crow/Forest Owlet is an endangered bird of India.

3. State whether True or False.

- a. Jelly fish is the largest brain animal as compared to its body.
- b. Dirty Dozen were the engineers who developed IBM PC.
- c. Rickets is a disease in which muscles become weak.
- d. Histology is a science that deals with the study of structure of tissues.
- e. Jaggery is a rich source of iron.

4. Match the following:

- | | | | |
|---------------------|---|---------------------|---|
| a. Colour blindness | → | (i) Roy Plunkett | ← |
| b. Marmot | → | (ii) Mammal | ← |
| c. Oriental Stork | → | (iii) Eyes | ← |
| d. Teflon | → | (iv) Biggest rocket | ← |
| e. Saturn V | → | (v) Endangered bird | ← |

5. Unjumble the letters to find out the answers.

- a. **DOP** is a group of dolphins. _____
- b. Laws of electricity was given by **DARFAAY**. _____
- c. **UCANUPCEURT** is a Chinese medical practice involving insertion of thin needles into the body. _____
- d. **PHIAOBVIA** is a fear of flying. _____
- e. **DDRANOI** is a software package for smartphones, including many application programs. _____

6. Write the full form of the following abbreviations.

- a. C A M _____
- b. G U I _____
- c. I C T _____
- d. U M T S _____
- e. G S M _____

7. Given below are the pictures of some famous Indian scientists. Name them.

