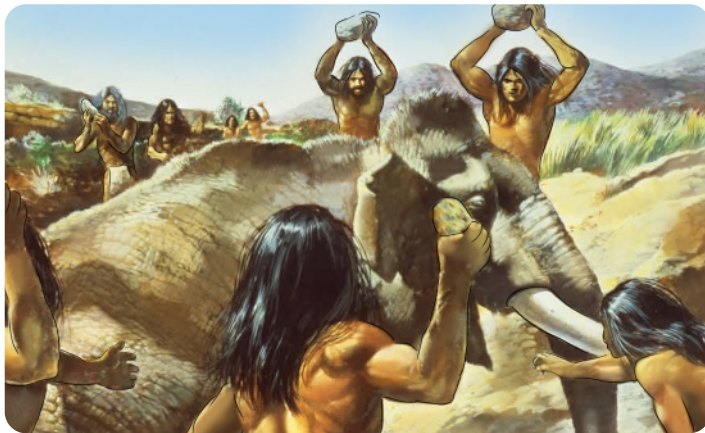




Inventors and Inventions

Making something new, which did not exist before is called invention. One who invents something new is called an inventor. In the ancient times, people used to go near the prey and hunt the animals with their hands. It was very difficult and dangerous job. This problem was solved with the invention of bow and arrow. It was very useful as there was no need to go close to the prey and it was easily hunted.



In the ancient times, people used stones for hunting.



People hunting with lance and 'bow and arrow'.

In the old days, people used tools made of wood and stone in their daily life which were very simple. Pointed stones, bow and arrow, hammer, plough and wheel are the examples of simple tools.



Tools made of wood and stone

If things had not been invented with the passage of time, we would have been living in the caves and eaten uncooked meat. A famous saying that:

“Necessity is the mother of invention”

From the very beginning, man has been inventing things so that he may make his living better. For this purpose, he invented basic things such as simple tools and wheel etc. Before the invention of wheel, people used horses, camels and mules for travelling and transportation of luggage.

After the invention of wheel, man made cart. In the beginning, he pulled the cart himself and then he used animals for this purpose.



Every invention has its own importance. Inventions make the work easier and save our time.

Inventions have made our lives easier. They have improved our living standard. The work which would take days, months and years, can now be done in a few hours.



Digging with hands



Digging with machine

People in any developed country cannot imagine to survive without facilities. In this modern age, the pace of development has increased due to inventions. For example, ways and means of travelling have become fast. The invention of computer, fax machine, microwave oven and CD has completely changed our lives.

Aeroplane

Before the invention of the aeroplane people used to travel by buses, trains and ships. It took several days to travel from one city to another. When people used to visit Makkah to perform Haj, most of them fell ill due to the hardships of journey. After the invention of aeroplane, distance of thousands of kilometres is covered in a few hours.



Computer

In almost every field of life, computer is being used for doing different sorts of work. In the offices, computer is used for drafting letters and preparing reports. Doctors use it for diagnosis and cure of diseases. Civil engineers and architects use it for making site plans and planning a city. Computer is also used for weather forecast.



A few years ago, it took months to send a letter from one country to another. Now-a-days, messages are conveyed within seconds to any part of the world through e-mail.

Fax Machine

Fax machine sends written messages and photographs within a few minutes from one place to another. Basically, like a photocopier, a fax machine first takes the image of a page and then transmits it to another fax machine through a telephone line. When this message is received by the other fax machine, it reprints the message on a page through a printer attached to it.



C.D

Its full name is Compact Disk. Data is stored on it. Naats, poems, music programmes, sport programmes, cartoons for children, films, photographs, etc. are recorded on it.



For storing computer data DVD and USB are also available in the market. They can store computer data many times more than a C.D.

Microwave Oven

A microwave oven is used to warm and cook food. It cooks food with microwaves and not with heat energy. It runs with electricity.



Some Inventors and Their Inventions

Inventors	Inventions	Inventors	Inventions
Daniel Gabriel Fahrenheit	Thermometer	Karl Benz	Car
Blaise Pascal	Calculator	Wilbur Wright, Orville Wright	Aeroplane
George Stephenson	Rail engine	Johannes Gutenberg	Printing Press
Charles Babbage	Computer	Guglielmo Marconi	Radio
Baron Karl Von Drais	Bicycle	Rudolf Diesel	Diesel engine
Thomas Edison	Bulb	Gottlieb Daimler	Motorcycle
Alexander Graham Bell	Telephone	Ibn-ul-Haytham	Pinhole camera
Charles Francis Jenkins, Philoti Fransworth, John Logie Baird	Television	Elias Howe	Sewing Machine

It is due to inventions that today clean drinking water and medicines for dangerous diseases like heart and cancer are available.

Project

In our daily life, we use wheel or wheel-like things. Make a list of a few things which work / run with the help of the wheel. While making this list, keep in mind the things like toys, machines and vehicles at your home.

EXERCISES

1. Give short answers:

- (i) What do you mean by invention?
- (ii) Hunting was not easy in ancient times, why?
- (iii) Write the names of any three inventions and their inventors.
- (iv) How does microwave oven work?
- (v) Why did people invent things?

2. Match Column 'A' with Column 'B'.

Column 'A'	Column 'B'
Sending messages through computer	because of inventions
Things are easily available now-a-days	CD
Thousands of years ago people lived	Bow and arrow
were used for hunting long ago	in the caves
Used for storing computer data	e-mail