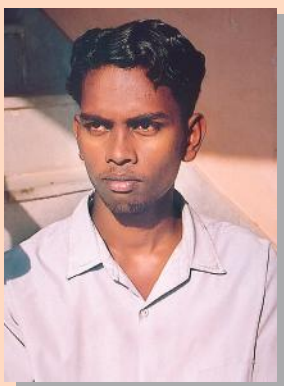


CHAPTER 2

FROM HUNTING–GATHERING TO GROWING FOOD



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Tushar's train journey

Tushar was going from Delhi to Chennai for his cousin's wedding. They were travelling by train and he had managed to squeeze into the window seat, his nose glued to the glass pane. As he watched trees and houses fly past, his uncle tapped his shoulder and said: "Do you know that trains were first used about 150 years ago, and that people began using buses a few decades later?" Tushar wondered, when people couldn't travel quickly from one place to another, did they spend their entire lives wherever they were born? Not quite.

The earliest people: why were they on the move?

We know about people who lived in the subcontinent as early as two million years ago. Today, we describe them as *hunter-gatherers*. The name comes from the way in which they got their food. Generally, they hunted wild animals, caught fish and birds, gathered fruits, roots, nuts, seeds, leaves, stalks and eggs.

Hunter-gatherers moved from place to place. There are many reasons for this.

First, if they had stayed at one place for a long time, they would have eaten up all the available plant and animal resources. Therefore, they would have had to go elsewhere in search of food.

Second, animals move from place to place — either in search of smaller prey, or, in the case of deer and wild cattle, in search of grass and leaves. That is why those who hunted them had to follow their movements.

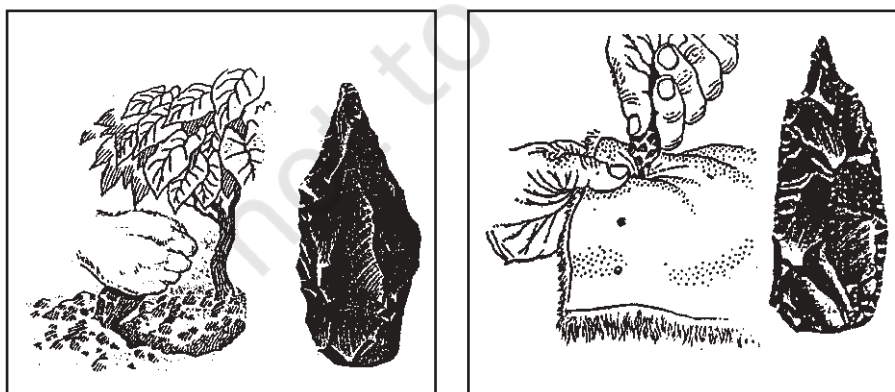
Third, plants and trees bear fruit in different seasons. So, people may have moved from season to season in search of different kinds of plants.

Fourth, people, plants and animals need water to survive. Water is found in lakes, streams and rivers. While many rivers and lakes are perennial (with water throughout the year), others are seasonal. People living on their banks would have had to go in search of water during the dry seasons (winter and summer).

How do we know about these people?

Archaeologists have found some of the things hunter-gatherers made and used. It is likely that people made and used tools of stone, wood and bone, of which stone tools have survived best.

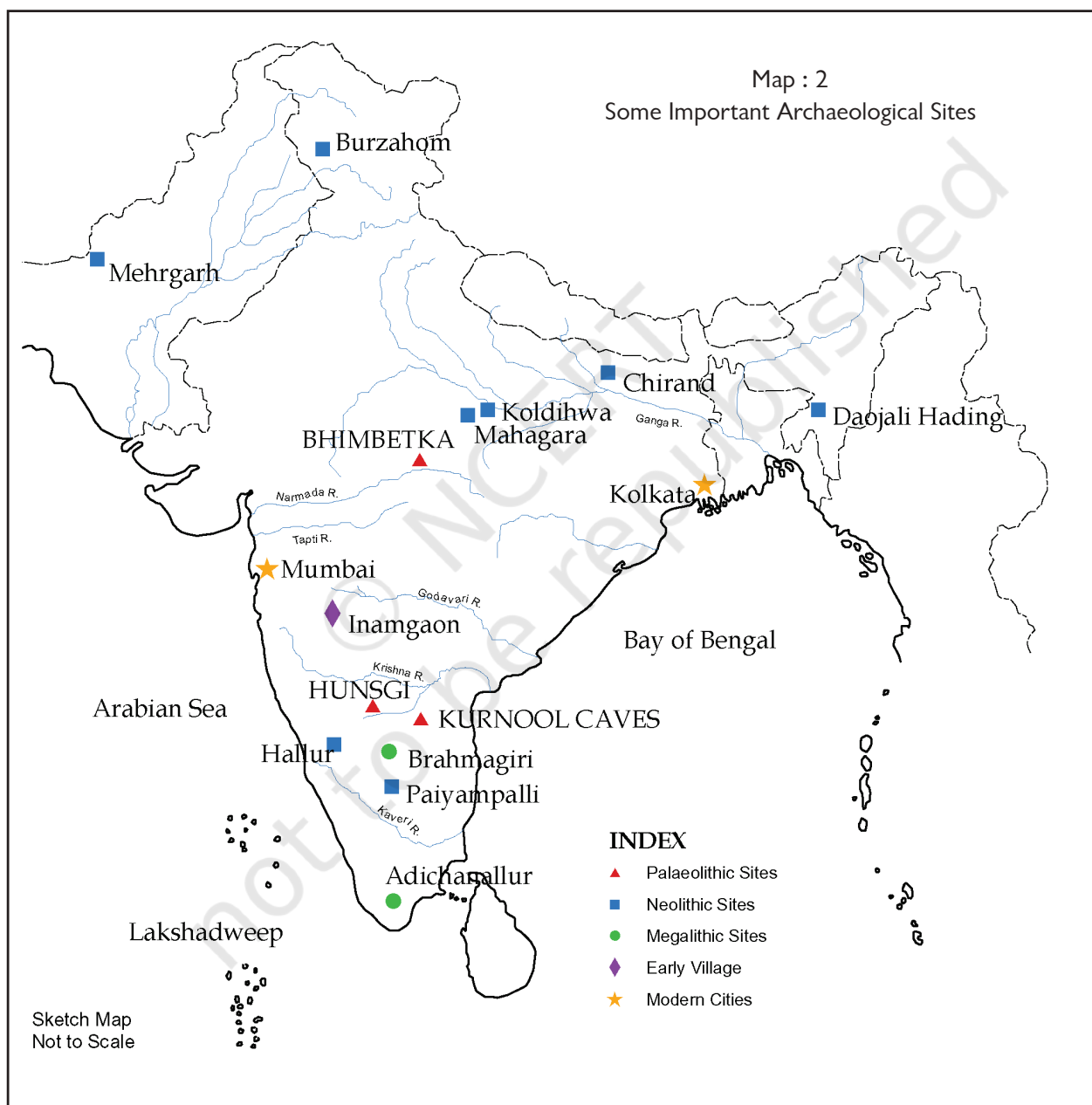
Some of these stone tools were used to cut meat and bone, scrape bark (from trees) and hides (animal skins), chop fruit and roots. Some may have been attached to handles of bone or wood, to make spears and arrows for hunting. Other tools were used to chop wood, which was used as firewood. Wood was also used to make huts and tools.



Stone tools may also have been used for :
Left : Digging the ground to collect edible roots.
Right : Stitching clothes made out of animal skin.

Choosing a place to live in

Look at Map 2 below. All the places marked with red triangles are *sites* from which archaeologists have found evidence of hunter-gatherers. (Hunter-gatherers lived in many more places. Only some are shown on the map). Many sites were located near sources of water, such as rivers and lakes.



As stone tools were important, people tried to find places where good quality stone was easily available.

Rock paintings and what they tell us



A painting from a rock shelter.
Describe the painting.

Many of the caves in which these early people lived have paintings on the walls. Some of the best examples are from Madhya Pradesh and southern Uttar Pradesh. These paintings show wild animals, drawn with great accuracy and skill.

Bhimbetka (in present-day Madhya Pradesh). This is an old site with caves and rock shelters. People chose these natural caves because they provided shelter from the rain, heat and wind. These rock shelters are close to the Narmada valley. *Can you think of why people chose to live here?*



Sites

are places where the remains of things (tools, pots, buildings, etc.) were found. These were made, used and left behind by people. These may be found on the surface of the earth, buried under the earth, or sometimes even under water. You will learn more about different sites in later chapters.

Finding out about fire

Find the Kurnool caves on Map 2 (page 12). Traces of ash have been found here. This suggests that people were familiar with the use of fire. Fire could have been used for many things: as a source of light, to roast meat, and to scare away animals.

What do we use fire for today?

Names and dates

Archaeologists have given lengthy names for the time that we are studying. They call the earliest period the *Palaeolithic*. This comes from two Greek words, '*palaeo*', meaning old, and '*lithos*', meaning stone. The name points to the importance of finds of stone tools. The Palaeolithic period extends from 2 million years ago to about 12,000 years ago. This long stretch of time is divided into the Lower, Middle and Upper Palaeolithic. *This long span of time covers 99 per cent of human history.*

The period when we find environmental changes, beginning about 12,000 years ago till about 10,000 years ago is called the *Mesolithic* (middle stone). Stone tools found during this period are generally tiny, and are called *microliths*. Microliths were probably stuck on to handles of bone or wood to make tools such as saws and sickles. At the same time, older varieties of tools continued to be in use.

The next stage, from about 10,000 years ago, is known as the *Neolithic*. What do you think the term Neolithic means?

We have also mentioned the names of some places. You will find the names of many more places in later chapters. Very often, we use present-day names of the places where people lived in the past, because we do not know what they called them.

A changing environment

Around 12,000 years ago, there were major changes in the climate of the world, with a shift to relatively warm conditions. In many areas, this led to the development of grasslands. This in turn led to an increase in the number of deer, antelope, goat, sheep and cattle, i.e. animals that survived on grass.

Those who hunted these animals now followed them, learning about their food habits and their breeding seasons. It is likely that this helped people to start thinking about herding and rearing these animals themselves. Fishing also became important.

The beginning of farming and herding

This was also a time when several grain bearing grasses, including wheat, barley and rice grew naturally in different parts of the subcontinent. Men, women and children probably collected these grains as food, and learnt where they grew, and when they ripened. This may have led them to think about growing plants on their own. In this way people became farmers.

People could also attract and then tame animals by leaving food for them near their shelters. The first animal to be tamed was the wild ancestor of the dog. Later, people encouraged animals that were relatively gentle to come near the camps where they lived. These animals such as sheep, goat, cattle and also the pig lived in herds, and most of them ate grass. Often, people protected these animals from attacks by other wild animals. This is how they became herders.

Can you think of any reasons why the dog was perhaps the first animal to be tamed?

Domestication

is the name given to the process in which people grow plants and look after animals. Very often, plants and animals that are tended by people become different from wild plants and animals. This is because people *select* plants and animals for domestication. For example, they select those plants and animals that are not prone to disease. They also select plants that yield large-size grain, and have strong stalks, capable of bearing

the weight of the ripe grain. Seeds from selected plants are preserved and sown to ensure that new plants (and seeds) will have the same qualities.

Amongst animals, those that are relatively gentle are selected for breeding. As a result, gradually, domesticated animals and plants become different from wild animals and

plants. For example, the teeth and horns of wild animals are usually much larger than those of domesticated animals.

Look at these two sets of teeth. Which do you think belongs to a wild pig and which to a domesticated one?

Domestication was a gradual process that took place in many parts of the world. It began about 12,000 years ago. Virtually all the plants and animals produce that we use as food today is a result of domestication. Some of the earliest plants to be domesticated were wheat and barley. The earliest domesticated animals include sheep and goat.

WAYS IN WHICH
GRAIN WAS USED



AS SEED

AS FOOD

AS GIFTS

STORED FOR FOOD

A new way of life

If you plant a seed, you will notice that it takes some time to grow. This may be for several days, weeks, months and in some cases years. When people began growing plants, it meant that they had to stay in the same place for a long time looking after the plants, watering, weeding, driving away animals and birds — till the grain ripened. And then, the grain had to be used carefully.

As grain had to be stored for both food and seed, people had to think of ways of storing it. In many areas, they began making large clay pots, or wove baskets, or dug pits into the ground. **Do you think hunter-gatherers would have made and used pots? Give reasons for your answer.**

Rearing animals

Animals multiply naturally. Besides, if they are looked after carefully, they provide milk, which is an important source of food, and meat, whenever required. In other words, animals that are reared can be used as a 'store' of food.

Apart from food, what are the other things that could have been obtained from animals?

What are animals used for today?

Finding out about the first farmers and herders

Turn to Map 2 (page 12). You will notice a number of blue squares. Each marks a site from where archaeologists have found evidence of early farmers and herders. These are found all over the subcontinent. Some of the most important ones are in the north-west, in present-day Kashmir, and in east and south India.

To find out whether these sites were settlements of farmers and herders, scientists study evidence of plants and animal bones. One of the most exciting finds includes remains of burnt grain. (These may have been burnt accidentally or on purpose). Scientists can identify these grains, and so we know that a number of crops were grown in different parts of the subcontinent. They can also identify the bones of different animals.

Towards a settled life

Archaeologists have found traces of huts or houses at some sites. For instance, in Burzahom (in present-day Kashmir) people built pit-houses, which were dug into the ground, with steps leading into them. These may have provided shelter in cold weather. Archaeologists have also found cooking hearths both inside and outside the huts, which suggests that, depending on the weather, people could cook food either indoors or outdoors.

Stone tools have been found from many sites as well. Many of these are different from the earlier Palaeolithic tools and that is why they are called *Neolithic*. These include tools that were polished to give a fine cutting edge, and mortars and pestles used for grinding grain and other plant produce. Mortars and pestles are used for grinding grain even today, several thousand years later. At the same time, tools of the Palaeolithic types continued to be made and used, and remember, some tools were also made of bone.

New stone tools.



Many kinds of earthen pots have also been found. These were sometimes decorated, and were used for storing things. People began using pots for cooking food, especially grains like rice, wheat and lentils that now became an important part

of the diet. Besides, they began weaving cloth, using different kinds of materials, for example cotton, that could now be grown.

Did things change everywhere and all at once? Not quite. In many areas, men and women still continued to hunt and gather food, and elsewhere people adopted farming and herding slowly, over several thousand years. Besides, in some cases people tried to combine these activities, doing different things during different seasons.

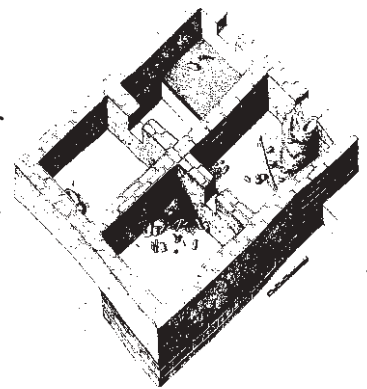


What do you think could have been stored in this jar?

A closer look — Living and dying in Mehrgarh

Find Mehrgarh on Map 2 (page 12). This site is located in a fertile plain, near the Bolan Pass, which is one of the most important routes into Iran. Mehrgarh was probably one of the places where people learnt to grow barley and wheat, and rear sheep and goats for the first time in this area. It is one of the earliest villages that we know about. At this site many animal bones were found. Bones of wild animals such as the deer and pig, and also bones of sheep and goat were found.

Other finds at Mehrgarh include remains of square or rectangular houses. Each house had four or more compartments, some of which may have been used for storage.



A house in Mehrgarh. This is what a house in Mehrgarh may have looked like.

In what ways is this house similar to the one in which you live?



A burial from Mehrgarh.

Can you identify the skeletons of the goats?

When people die, their relatives and friends generally pay respect to them. People look after them, perhaps in the belief that there is some form of life after death. Burial is one such arrangement. Several burial sites have been found at Mehrgarh. In one instance, the dead person was buried with goats, which were probably meant to serve as food in the next world.

KEYWORDS
hunter-gatherer
site
habitation
factory
Palaeolithic
Mesolithic
microliths
domestication
farmers
herders
Neolithic
burials

Imagine

You live in a rock shelter like the one shown on page 13 about 12,000 years ago. Your uncle is painting one of the inner walls of the cave and you want to help him. Will you mix the colours, draw the lines, fill in the colours? What are the stories he might tell you?

Let's recall



1. Complete the sentences:
 - (a) Hunter-gatherers chose to live in caves and rock shelters because _____.
 - (b) Grasslands developed around _____ years ago.
2. Why do people who grow crops have to stay in the same place for a long time?
3. Why do archaeologists think that many people who lived in Mehrgarh were hunters to start with and that herding became more important later?

Let's discuss



4. Why did the hunter-gatherers travel from place to place? In what ways are these similar to/different from the reasons for which we travel today?

5. List three ways in which hunter-gatherers used fire (see page 14). Would you use fire for any of these purposes today?
6. List three ways in which the lives of farmers and herders would have been different from that of hunter-gatherers.

Let's do



7. List the cereals that you eat. Do you grow the cereals you eat. If yes, draw a chart to show the stages in growing them. If not, draw a chart to show how these cereals reach you from the farmers who grow them.

SOME IMPORTANT DATES

- ▶ the Mesolithic period (12,000-10,000 years ago)
- ▶ Beginnings of domestication (about 12,000 years ago)
- ▶ Beginning of settlement at Mehrgarh (about 8000 years ago)
- ▶ the beginning of the Neolithic (10,000 years ago)