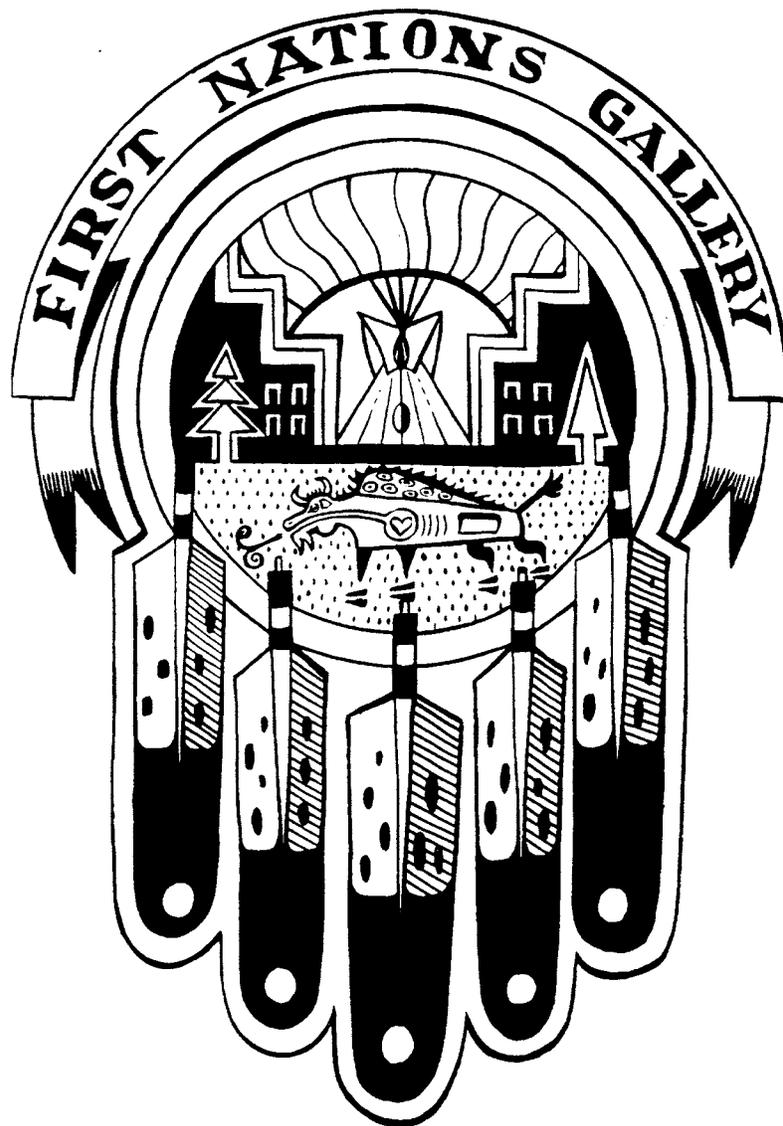


# CHANGING TIMES

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First Nations Program  
Teacher's Guide



## ROYAL SASKATCHEWAN MUSEUM



Saskatchewan  
Ministry of  
Parks, Culture  
and Sport

For further information on this and other programs  
please contact:

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**Teacher's Guide**  
**Changing Times**  
**Grades 4 - 6**

**Timetable**

When the class arrives, divide the students into two groups. Group One goes with the Museum instructor to the activity room. Group Two goes to the First Nations Gallery with the second Museum instructor. After 30 minutes, the two groups switch: Group One goes to the Gallery and Group Two goes to the activity room.

Museum instructors lead the educational program. Discipline and group conduct is the responsibility of teachers and chaperones.

**Program Concepts**

The two main ideas behind the Changing Times program are as follows:

- The precontact First Nations people of Saskatchewan had a sophisticated system of stone tools and weapons suited to their environment.
- All cultures are continually changing.

**Program Content**

**Activity Room**

Students discuss the environmental and cultural changes experienced by precontact First Nations people in Saskatchewan. The Museum instructor distributes various projectile points and hunting weapons for the students to examine. The section on pp. 6-11 outlines the content of the activity room program.

**Gallery**

This portion of the program focuses on the stone tool technology section of the Gallery. Students examine authentic stone tools and discuss their manufacture and use.

Please refer to pp. 2-5 for background information on stone tool manufacture.

## Background Information Stone Tool Manufacture

Acquiring the right kind of stone was the first step in manufacturing stone tools and weapons. The best rocks have few flaws, so that they break cleanly and evenly. Stone suitable for working into tools occurs throughout most of Saskatchewan – in river beds, glacial till deposits, or in localized quarries. The map below shows the major source areas of siltstone, fused shale, and quartzite in Saskatchewan.



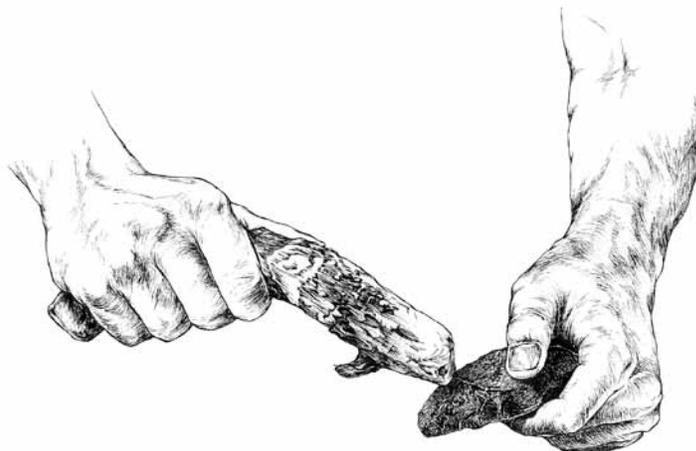
Some tools found in Saskatchewan are made of stone types which do not occur naturally in the province. These materials were highly valued because they were especially easy to make into sharp tools and weapons as a result of their high silica content. As the map above shows, Knife River flint was found mostly in North Dakota and the source of obsidian was in Wyoming. First Nations people from Saskatchewan usually obtained these kinds of stones through trade. They developed extensive trade networks that allowed them to barter for many different commodities from distant places.

Besides knowing which rocks to use and where to find them, *flintknappers* also had to know how to strike (or *knap*) the rock to make the tool. Often the flintknapper used three different methods of stone knapping to make one tool or weapon. The three methods of stone knapping are described below:

Step One: Hard Hammer Percussion Using another stone, the flintknapper struck large flakes from a rock. These flakes could sometimes be used as simple tools without any further work. More complicated objects needed more refinement.



Step Two: Soft Hammer Percussion Using the blunt thicker end of a piece of antler (the “soft” hammer), the flintknapper struck smaller flakes from the first flake, to give the stone tool a useful or efficient shape.





Step Three: Pressure Flaking The flintknapper finished the tool by pressing tiny flakes from it using the narrow end of a piece of antler. This final step produced even, sharp edges such as those on a projectile point.

The following stone tools and weapons are in the *Stone Tool Technology* display:

1. Projectile points
2. Knives
3. Scrapers
4. Flintknapping tools
5. Used flakes

They were used for the following activities:

1. Projectile points - hunting and warfare.
2. Knives - food preparation, making clothing, cutting a variety of things.
3. Scrapers - hide preparation and woodworking.

Other tools that were made and used are as follows:

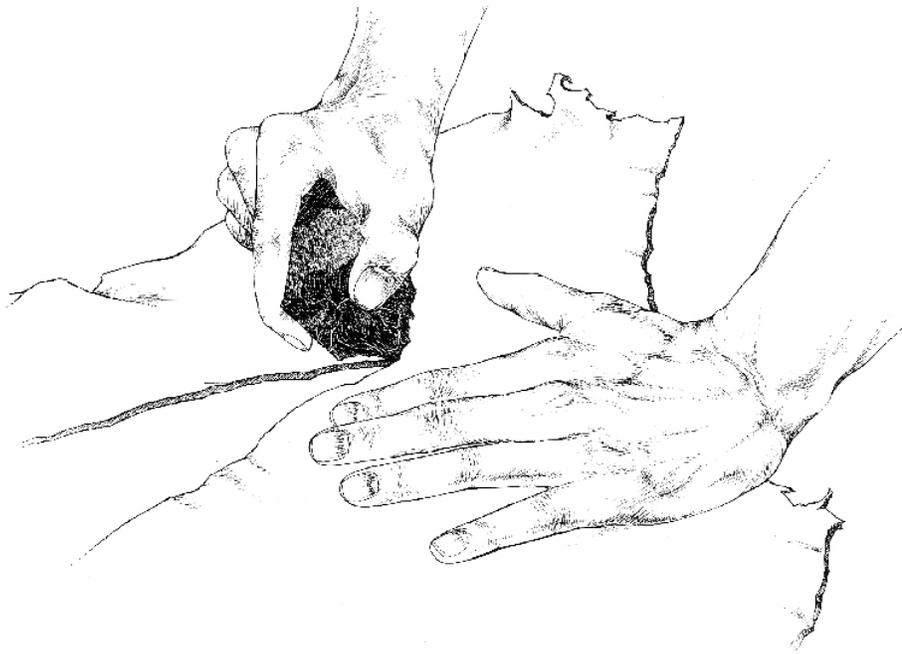
1. Hammerstone - for making tools.
2. Mauls - for pounding meat, berries, etc. and breaking bones for marrow.
3. Axes - for cutting and shaping wood.

## Using Stone Tools



Breaking bison bones with a maul

Cutting hide with a stone knife



## Through Time

The three precontact weapons were used during the following time periods:

Spear	12,000 to 8,000 years ago
Atlatl and dart	8,000 to 2,000 years ago
Bow and arrow	2,000 years ago to historic times

Archaeologists named the earliest First Peoples from the only evidence available – stone weapons and tools left behind. For example, the Besant culture is named for a site not far from Moose Jaw. In general, only stone and bone artifacts are found. This gives archaeologists only a partial picture of the past.

The information available on precontact cultures is fragmentary. Archaeologists gather information used to develop theories from a variety of sources. This includes recovered artifacts, pollen and plant studies, studies of animal bones, and weather patterns. Even with all this information put together, the picture is still far from complete. We may never know how societies were structured, what clothing and decoration looked like, or how people accomplished the simple chores of day-to-day living.

The following is a brief three part overview of Saskatchewan's environment and the people who lived then:

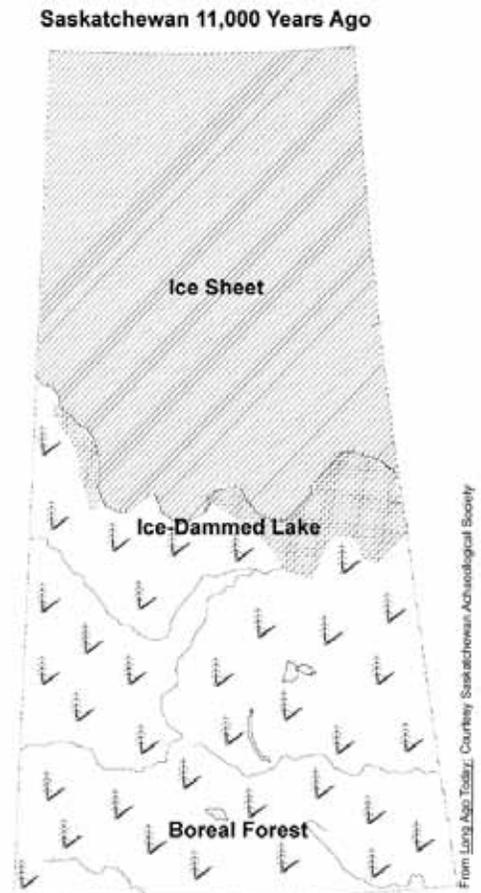
### **Part One: The Early Precontact Period (12,000-8,000 Years Ago)**

First Evidence of Occupation - 12,000 years ago.

The only evidence of people from 12,000 years ago is surface finds of stone tools and weapons. We know very little about the people living in Saskatchewan from this date.

The Ice Age was ending. Glaciers were retreating, leaving the plains and parkland areas free of ice. Boreal forest covered most of southern Saskatchewan.

The climate was cooler and wetter. Animals such as mammoths, camels, muskox, elk, horses, and pronghorn lived in Saskatchewan. Although the giant bison (*Bison latifrons*) had become extinct before the end of the Ice Age, a smaller species (*Bison bison*) — the modern bison — did survive and was living in Saskatchewan at this time.



## Pleistocene Hunters - Spears

Clovis points are the oldest projectile points found in North America. Because many Clovis points are big, archaeologists think they were used with spears. Spears were either thrown or thrust, depending on the animal being hunted and the circumstances.

Archaeologists think that some spears may have been made in two parts. A foreshaft with the point attached might have been fitted into a longer shaft. This type of spear would have worked something like a harpoon, in which the long shaft could be recovered and fitted with another foreshaft and point.

Using this weapon system, hunters could carry many foreshafts and only one long spear pole. That would have been easier than carrying many spears. Also, it took less wood to make a few small foreshafts and only one pole than it would to make many long spears.

No kill sites or living sites have been found in Saskatchewan but Paleo Indians in other parts of western North America hunted mammoth and smaller game animals. Paleo Indians would likely have made shelters of wood, bone, and leather and used a variety of plant materials, as well as animal products. They probably had domesticated dogs.

## A Changing Landscape

Beginning about 10,000 years ago, the climate started to become warmer and drier. Grassland began to appear as forests receded to the north.

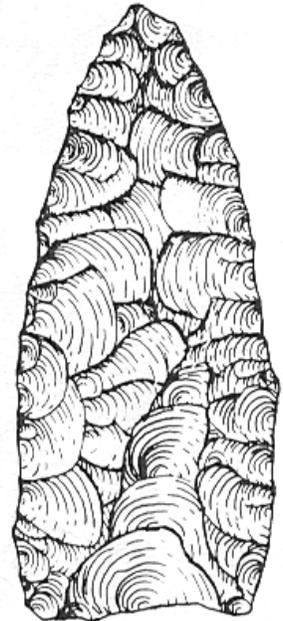
Many animals living in Saskatchewan changed. Some, like the mammoths, camels, and horses, died out. Others, like the caribou and muskox, moved north where their habitat still existed. Bison were becoming smaller and were beginning to live in larger herds.

## Early Precontact People - Spears

The Folsom point is the next type of projectile point recognized by archaeologists. It looks different from the Clovis point in that the fluting extends all the way up the middle of the point.

Clovis and later points such as Alberta, Scottsbluff, Eden, and Agate Basin were still being used with spears.

Clovis Point



Courtesy Saskatchewan Archaeological Society

## Early Precontact Points



**Folsom**



**Hell Gap**



**Agate Basin**



**Alberta**



**Scottsbluff**



**Eden**

From Long, Age, Tobias, Courtesy Saskatchewan Archaeological Society

Sites in Saskatchewan from this early period show that people were hunting and eating bison. Some archaeologists believe communal hunting began during the early precontact period. The Fletcher Site in Alberta is one example. Hunters surrounded a small herd of bison at a slough; the water and mud slowed the bison's escape long enough for the hunters to spear them.

Bison Hunt at the Fletcher Site



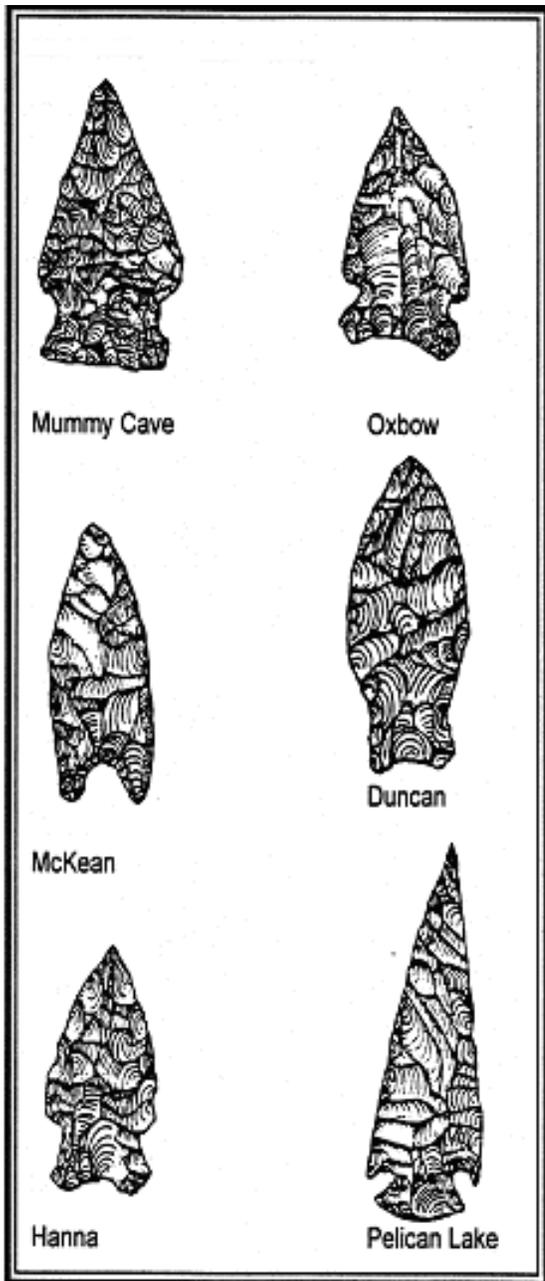
### **Part Two: The Middle Precontact Period (8,000-2,000 Years Ago)**

The climate continued to become warmer and drier. This trend lasted about 2,000 years. By 3,000 years ago, Saskatchewan looked much as it does today.

Some archaeologists believe this warmer drier climate affected the lifestyle of aboriginal people. They have found tools such as mortars that suggest the people might have been eating more plant material and smaller animals. However, no one is sure how the warmer drier climate affected the bison herds that were so important to these people. We do know their weapons changed a lot.

## Middle Precontact Hunters - Atlatls and Darts

The atlatl (or throwing stick) and dart is the technology that archaeologists use to mark the beginning of the Middle Precontact Period.



Darts were smaller than spears. They also had feather fletching on the end to help them fly straighter. Hunters used the atlatl to throw the dart. The atlatl acted to lengthen the thrower's arm, enabling him to throw the dart farther and faster.

Because darts were smaller than spears, dart points also had to be smaller. This is one way archaeologists can differentiate between dart points and spear points.

The atlatl and dart weapon system had some important advantages over the spear. The hunter did not have to get as close to the animal being hunted, yet the weapon was powerful enough to kill large game. It was more efficient than a spear for killing animals such as deer, pronghorn, and bison. Atlatls and darts also used less wood. Some archaeologists think that as the climate became warmer and drier, wood suitable for manufacturing weapons became scarce.

Archaeologists don't know how atlatls were introduced. The Aztecs used them, so they may have spread from the south or they may have been invented elsewhere. Either way, the atlatl and dart became the weapon of choice.

The Besant people were the last dart-throwers on the Plains. They were excellent bison hunters and the first to use the *buffalo pound*.

Middle Precontact Points

### **Part Three: The Late Precontact Period (2,000-300 Years Ago)**

#### **Late Precontact Hunters – Bows and Arrows**

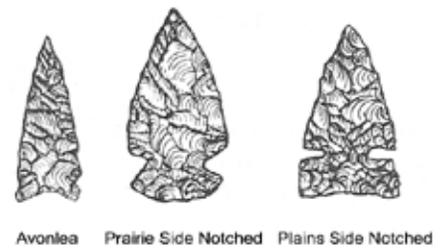
By the end of the Middle Precontact Period, Saskatchewan's natural environment looked much as it would when the fur traders arrived.

Even without changes to the environment, new tools and weapons appeared on the grasslands 1,500 years ago.

At this time, people began to make and use pottery. The first potters we know of in Saskatchewan were the Besant people, who were still using atlatls and darts.

While the Besant people were still living in Saskatchewan, a new culture appeared on the Plains. The Avonlea culture (named for a site close to the town of Avonlea, Saskatchewan) was the first to make the tiny points associated with bows and arrows. Archaeologists do not know if the Avonlea culture came from new people moving into the area, or if the Besant people adopted a new technology.

Late Precontact Points



Bows and arrows have advantages over atlatls and darts. They are smaller, use less wood, and are easier to carry. Expert hunters could load and shoot arrows faster than darts; they could also shoot prey with greater accuracy from greater distances than was possible using atlatls. Finally, arrows can be shot from a variety of positions – standing, kneeling, or crouching. Darts can only be thrown from a standing position.

When the Plains people started using the bow and arrow, the environment was not changing. They either invented this new technology or learned about it from other people. Either way, bows and arrows were such efficient weapons that they were used for certain types of hunting long after the Plains people had access to guns. One very good example of this is the use of the bow and arrow in both buffalo pounds and for the buffalo chase from horseback. Muzzle-loading guns took longer to load and shoot than bow and arrows. Guns were not very accurate and would often misfire. Only breech-loaded rifles were more deadly than bows and arrows.



## Pre-Visit Activities

1. The following vocabulary should be discussed with the class:

Adaptation	Environment	Precontact
Culture	Flora and Fauna	Archaeology

2. The work of archaeologists can be studied. How do they carry out a dig? What do they do with the artifacts?

Students can simulate a dig. This can be done in a number of ways:

If the school has a sandbox, it can be cleaned, then filled with “artifacts.” Artifacts can be any hard objects, including broken pottery or china, bones, bits of old jewellery, etc.

The students grid the box into squares and dig it square by square using small trowels, spoons, and brushes (teachers may wish to wet the sand to make digging easier). As they find artifacts, students record their position in the grid, number the artifact, and record a description of each item.

If broken pottery is used, students can attempt to reconstruct the dish. To make this activity even more interesting, include pieces from two different dishes, but do not include all the pieces to each dish.

Students finish the activity by analyzing the artifacts. When all the pieces are collected and all the facts known, what was learned? What conclusions can be surmised from the information?

This activity can be carried out on a smaller scale using a large box or crate to hold the dig.

When recording artifact descriptions, the following categories should be used: size, material, colour, possible function, markings, and condition.

## Post-Visit Activities

1. Students can find other examples of cultural change for First Nations people in Canada. Examples might include the fur trade, epidemics, modern environmental changes, and political changes such as land settlements and self-government.
2. Students can search through newspapers and magazines for examples of changes that our culture might have to deal with or that are issues now. Examples might include the greenhouse effect, pollution, etc.
3. Students can research examples of inventions and innovations that have affected North American culture. Examples might include the Model T Ford, penicillin, atomic bomb, mass air travel, electric light bulb, and the computer. Put these on a scale to show how greatly they have changed our lives. Have these changes all been for the better?