Discover Michigan Patch Program

History, Geography, Recreation & More

Girl Scouts Heart of Michigan
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Introduction

Girl Scouts of the Huron Valley Council Discover Michigan Patch Program makes learning about Michigan fun for girls.

Girl Scouts can begin the Discover Michigan Patch Program when in third grade. These Brownie Girl Scouts complete a series of puzzles to earn the first of the three patches available through the program.

The second part of the program is for Junior Girl Scouts. The girls answer questions by designing and producing a poster and a mobile to earn the patch.

The final patch may be earned by Cadette and Senior girl Scouts. The requirements include answering a series of questions about the Indians of Michigan and using maps of the upper and lower peninsulas to identify the location of main Michigan cities.

This Discover Michigan Patch Program Booklet explains patch requirements and contains print and internet resources and a complete answer key for Leaders.

This three-part patch program was created by Carole Jean Stockhausen and Sue Petres of Northville, Michigan.

Discover Michigan Patch for Brownie Girl Scouts

Complete the following series of puzzles to earn this patch.
An answer key appears in the back of this booklet.

Indians and Early Explorers

The first Michiganders were Indians, living in the state for thousands of years before the first white man appeared. Etienne Brule, a Frenchman, was the first European to reach Michigan where he visited the Upper Peninsula in 1622. Some of Michigan's Indian tribes and explorers are hidden in this puzzle. Find them by looking across, backwards, up, down and diagonally.

E L U C H I P P N O B L C S A
T X E C H A M P I I N D A T W
T E P S T I U S E J C I D O A
E T O L A S P O T A U O I M T
U S R E R O L P X E I T L A T
Q E A I B R U L E M A R L E W
R U M A M P L A I W P I A C T
A Q A Q A O E T M R A J C L T
M R R O T N T J O L L I E T C
S A O T T A J A M C H L T O A
A M A U R B O T W A L A S T I
L W N N I A L P M A H C T E T
A A R J O L L I S M T A H X N
L A S I N D I A N S W O P A O
G R E N O B L E W A E X P L P

INDIANS
CHIPPEWA
OTTAWA
PONTIAC
POTAWATOMI

EXPLORERS
BRULE
CADILLAC
CHAMPLAIN
GRENOBLE
JESUITS
JOLLIET
LASALLE
MARQUETTE
NICOLET

"Beautiful" Michigan

Michigan's flag and coat of arms have three Latin mottoes. Two are Michigan ones and the third is the United States motto. To find out what these mottoes mean in English, work out the secret code below. Each letter of the alphabet has been substituted for another. The word "beautiful" has been filled in to give you a head start.

BEAUTIFUL
RU BLF HVVP Z YVZFGRUFO KVMRMHFOZ, OLLP ZYLFG BLF.

"Tuebor"

R DROO KILGVXG

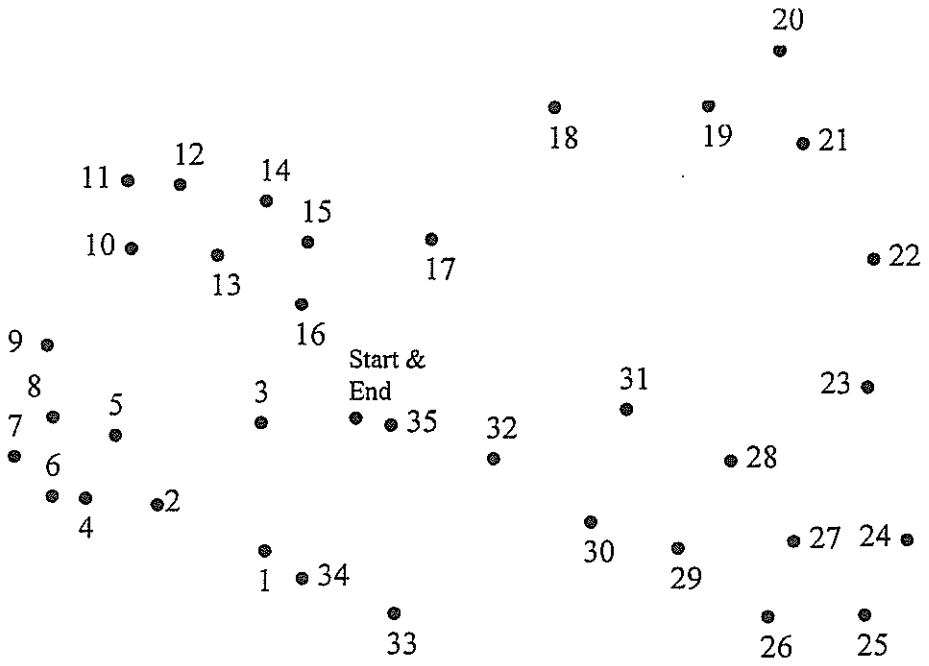
"E Pluribus Unam"

LFG LU NZMB, LMV

Here is the alphabet to help you figure it out:
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

The Legend of Sleeping Bear Dune and the Manitou Islands

Many years ago a black bear swam across Lake Michigan from Wisconsin to Michigan. She was followed by her two cubs. It was a long journey and the cubs became so tired they lagged behind. When the mother bear reached the shore, she climbed up on a dune to watch for her cubs. But the cubs couldn't swim that far, so the Great White Spirit changed each cub into an island. They can be seen today as the North Manitou Island and the South Manitou Island off the shore of Lake Michigan where their mother, Sleeping Bear Dune, is still waiting for them.

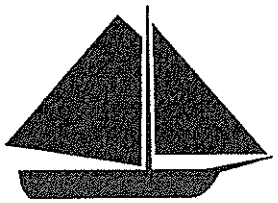


Seasonal Activities in Michigan

Tourists are attracted to Michigan during all seasons of the year because of all the things there are to do and see in the state. Can you unscramble the words to find out the attractions for each season? The first letter of each word is filled in to help you out.

Summer

1.	TINGABO	B_____
2.	GIIMMNSW	S_____
3.	PINCGMA	C_____
4.	UTSNNHGBAI	S_____
5.	LIGSINA	S_____
6.	NEUD SGUBIEG	D B_____

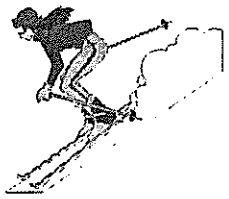


Fall

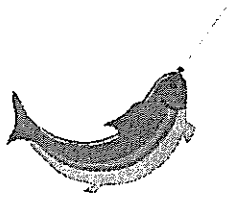
1.	OLORC TUOSR	C T_____
2.	REDE NNIUHGT	D H_____
3.	LMNOSA SHINIGF	S F_____
4.	DRBI IHNUGTN	B H_____

Winter

1.	GSNKII	S_____
2.	WSONBGIILMNO	S_____
3.	CIE SHFNIGI	I F_____
4.	OOGGNNNAIBTG	T_____
5.	ECI KNAIGTS	I S_____
6.	DDSENLGI	S_____



Spring



1.	AEIOCNNG	C_____
2.	TTORU HIGFISN	T F_____
3.	LUTPI AEFILSTV	T F_____
4.	SASB HGSFIIN	B F_____
5.	MRUOSOHM HINUGTN	M H_____

Michigan's U.P.

Find the "up" words by filling them in from the clues.

1. Lake __ u p __ __ __ __ __ (One of the Great Lakes)

2. Maple __ __ __ u p (Made from tree sap)

3. __ u p (A young timber wolf)

4. U p __ __ __ Peninsula (Northern part of Michigan)

5. u p __ __ __ __ __ __ __ __ (Important part of Michigan's furniture industry)

6. __ u p __ __ __ (A meal in Michigan that might include beef, corn on the cob and strawberry shortcake)

7. __ __ u p (You can make this with Michigan vegetables)

8. __ u p __ __ __ __ __ (Found in the kitchen, used to hold dishes)

9. __ u p __ __ (Describes the kind of state Michigan is. Hint: similar to answer #6)

Discover Michigan Patch for Junior Girl Scouts

If a Junior Girl Scout did not earn this badge as a Brownie, she should begin by doing the Brownie puzzles and the continue on with the following requirements.

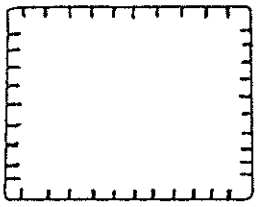
The first part of this badge is to answer all of the Michigan poster questions. An answer key appears in the back of this booklet.

The second part of this badge is to make a mobile. The wire used is a 14 gauge wire. It takes approximately eight feet of wire per mobile. Within each mobile will hang a white pine tree (instructions follow), an apple blossom made of tissue paper on a twig, a Petoskey stone made from a sponge and an origami robin (instructions follow). If you have contact with anyone that know how to do origami, you could have them come in and help you with that aspect. If, after attempting the robin, you find it is too difficult to make, you can cut out one in cardboard and color it as a substitute.

_____'s Poster of Michigan

(Michigander's name)

On what date did Michigan become a state? _____



What is the name of this national Park?

Draw a picture of a moose Here

Houghton

Porcupine Mountains

Which National Lakeshore is found Here? _____

Marquette

Sault Ste. Marie

What are boat locks? _____

What two minerals were mined in this area? _____

Which water-falls are found Here?

Mackinaw City

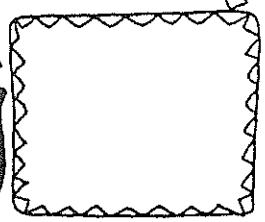
Name this island

What is a peninsula? _____

Escanaba

What fort is found here? _____

Draw a picture of the Mackinaw Bridge



What foreign country does Michigan border? _____

Which National Lakeshore is found here?

Traverse City

Hartwick Pines

Name the:

State bird _____
State gem _____
State animal _____
State flower _____
State fish _____
State tree _____
State stone _____
State nickname _____
State song _____
State motto _____

What's your favorite Michigan fruit? _____

What is a virgin forest? _____

When can you walk across the bridge? _____

Grand Rapids

The governor of our state is _____. He serves a ___ year term.

Lansing

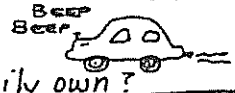
What are these dunes called? _____

Who is the Lieutenant governor? _____

Name this Lake

Detroit

Who was the first governor of Michigan? _____



What kind of automobile does your family own? _____

Label the great Lakes that border Michigan. Which great Lake does not border Michigan? _____

Where do you live? Don't forget to put your home town on the map!

☆ Color your Michigan Poster to show off its Beauty ☆

Directions for making the origami robin

Start with a square piece of brown 8-1/2" by 8-1/2" paper. IT IS IMPORTANT THAT ALL YOUR FOLDS ARE DONE CAREFULLY AND PRECISELY!!!

1. Fold the paper in half.

2. Have the fold of the paper at the bottom. Fold the bottom right-hand corner up to make a triangle on the right side.

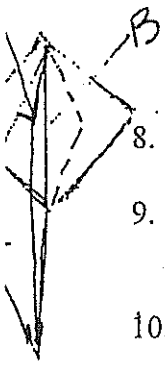
3. Turn the paper so that the back is facing up and do the same as #2.

4. Put the point down and open the top, put your two index fingers in the center of the cone and flatten sideways to form a square. Turn so the open side is up.

5. Take the top layer of the right corner, fold to the center line to form a tall triangle. (Note diagram.) Now do the same with the left side. Now that your creases are made, open it back up. The open top of the square is "A".

6. Fold over the bottom "B" (closed point) so that the point is on the center line a little more than 1/4 of the way up and crease. Then fold back into a square.

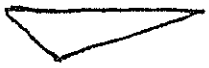
7. Take the top layer of point "A" and pull out and down. Push in the side and start creasing to form a triangle with the base along the center line. Continue to crease to form a long triangle. Do the same on the left side so that you have two long triangles with their bases facing each other.



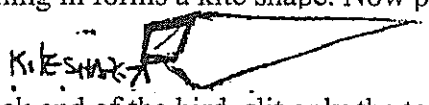
8. After step #6, turn it over and repeat steps #5, #6 and #7...

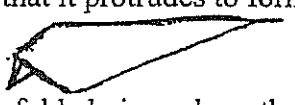
9. Turn your paper so that the short point of the diamond is UP. The cut end should be to the left. Fold the paper right to left so you have a kite shape. Turn the paper over and repeat.

10. Fold the top down horizontally. Turn over and repeat.



11. On the small side of the triangle, fold the tip of the paper under so that the small section you are pushing in forms a kite shape. Now push down so that it protrudes to form the "beak".





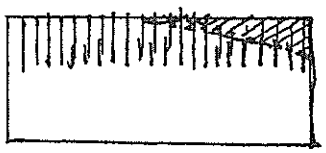
12. From the back end of the bird, slit only the top piece of the folded piece along the crease. Fold up each side to form the "wings".

13. Now with black, orange and yellow marker, crayon or colored pencil, color to look like a robin.

Directions for making the white pine tree

You will need a piece of brown paper (2-1/2" by 1-3/4") and a piece of green paper (8-1/4" by 4").

1. Cut down 1-1/2" on the top of the long green rectangle, every 1/8" the full length. Now cut on an angle over the slices, from the bottom of the slices to halfway across the length to the top in the middle.



2. Take the green piece and start rolling it from the small end into the large end. Reach into the "leaves" and pull up at the smallest "leaf".

3. Wrap the brown "trunk" on top of the bottom of the green "tree".

Discover Michigan Patch

for Cadette/Senior/Ambassador Girl Scouts

If a Cadette/Senior/Ambassador Girl Scout did not earn this badge as a Brownie and/or a Junior, she should begin by doing the Brownie puzzles and then the Junior poster and mobile, before continuing on with the following requirements.

There are two parts to this badge. One is to answer all the questions about Michigan Native Americans. The second is to identify where different cities are located on the Michigan map. Both answer keys can be found in the back of this booklet.

How Much Do You Know About the First Michigan Residents?

1. Name the three tribes of Michigan Indians _____, _____ & _____

2. Which two tribes lived in wigwams? _____ & _____

3. Which tribe lived in long houses?_____

4. Which tribe were good hunters, trappers and fishermen?_____

5. Which tribe were farmers?_____

6. Which tribe was well known as traders?_____

7. Describe the shape of a wigwam.
_____

8. What is a dugout?_____

9. In which tribe did the men wear hair sticking up like a brush?_____

10. What did the women do weaving of with corn husks and cattail leaves?_____ &
_____

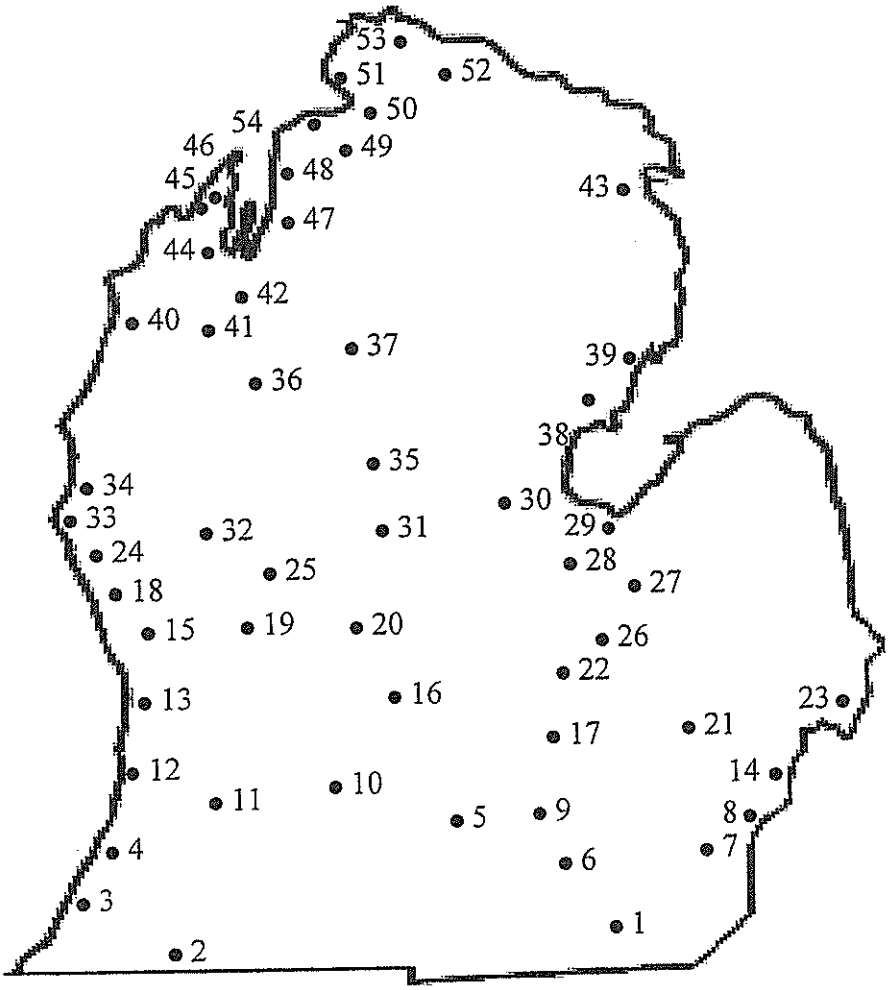
11. Which tribe wore clothes made from deerskins that were decorated with porcupine quills?_____

12. Which tribe's name means "People of the Rapids"?_____

Cities in the Lower Peninsula

Locate the following cities in the lower peninsula: (Write the number from the map next to the appropriate city's name.)

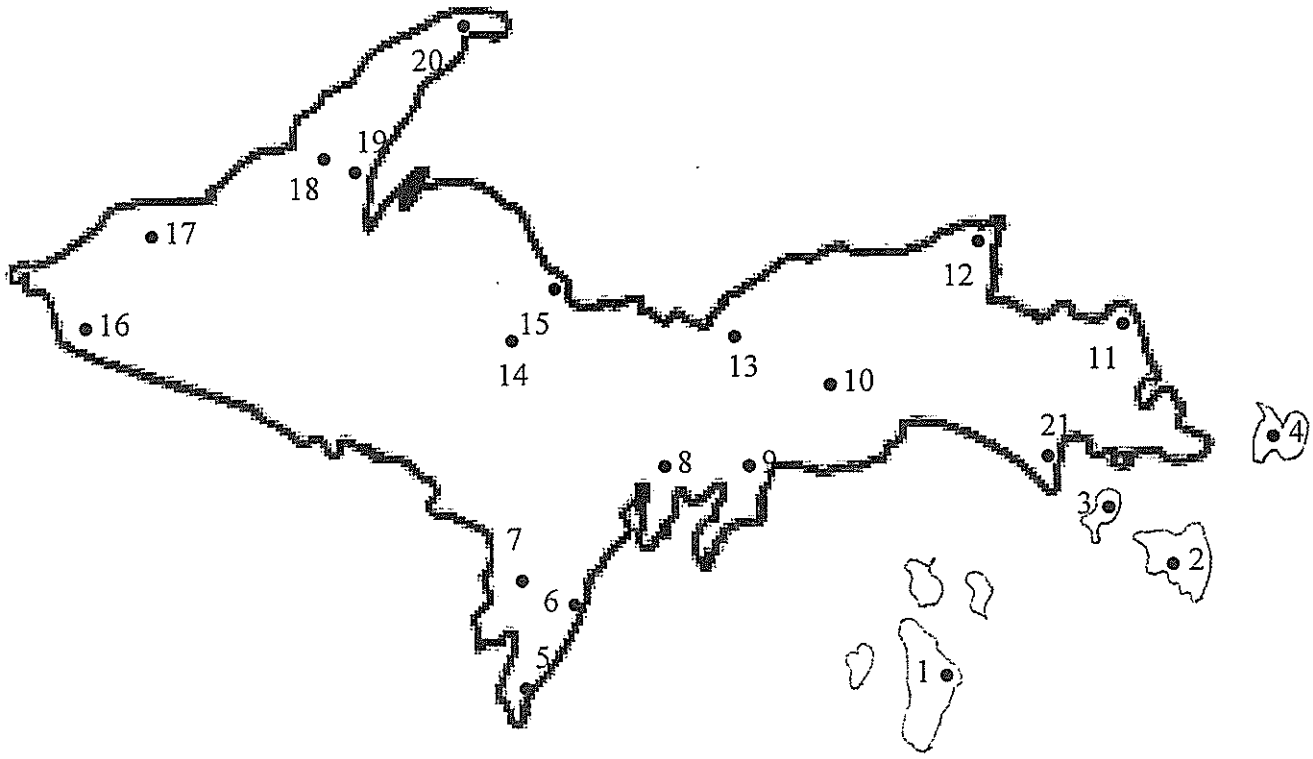
__Alpena
__Ann Arbor
__Battle Creek
__Bay City
__Benton Harbor
__Big Rapids
__Boyne City
__Cadillac
__Charlevoix
__Cheboygan
__Clare
__Dearborn
__Detroit
__East Lansing
__Eastport
__Elk Rapids
__Flint
__Frankenmuth
__Frankfort
__Grand Haven
__Grand Rapids
__Greenville
__Grosse Pointe
__Harbor Springs
__Holland
__Holly
__Houghton Lake
__Howell
__Interlochen
__Jackson
__Kalamazoo
__Lansing
__Leland
__Ludington
__Mackinaw City
__Manistee
__Midland
__Milan
__Mt. Pleasant
__Muskegon
__Niles
__Northport
__Oscoda
__Petoskey
__Port Huron
__Rochester
__Saginaw
__Saugatuck
__South Haven
__St. Joseph
__Suttons Bay
__Tawas
__Traverse City
__Ypsilanti



Cities in the Upper Peninsula

Locate the following cities in the upper peninsula: (Write the number from the map next to the appropriate city's name.)

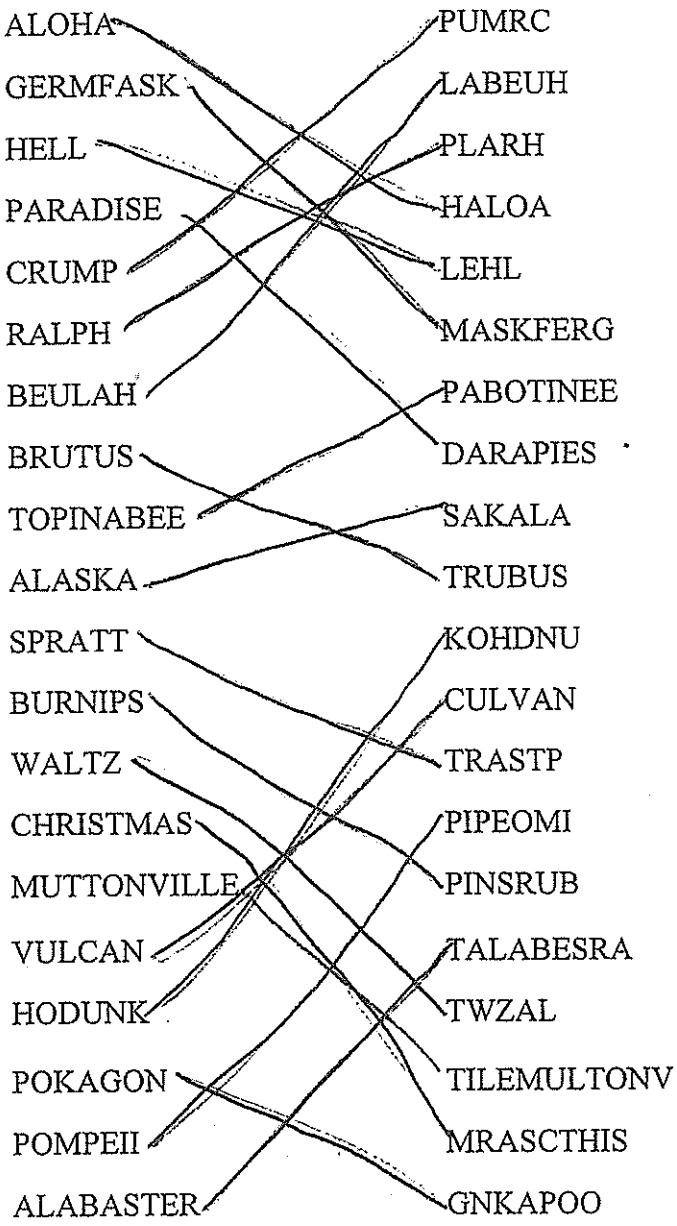
__Beaver Island
__Bois Blanc Island
__Copper Harbor
__Drummond Island
__Escanaba
__Hancock
__Houghton
__Iron Mountain
__Ironwood
__Ishpeming
__Mackinac Island
__Manistique
__Marquette
__Menominee
__Munising
__Newberry
__Ontonagon
__Rapid River
__Sault Ste Marie
__St. Ignace
__Whitefish Point



Answer Key

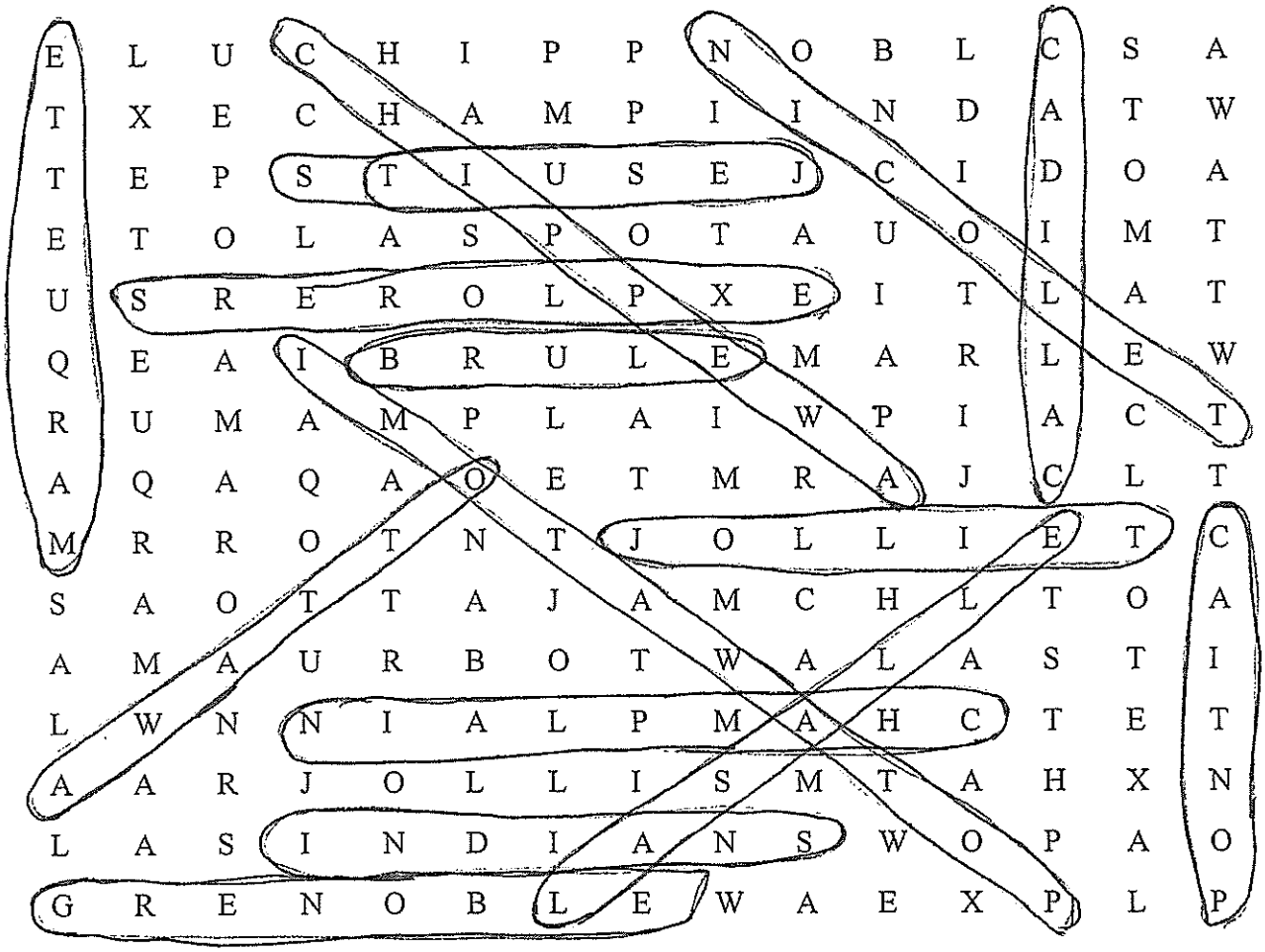
Michigan Cities

Everyone's heard of Detroit and Grand Rapids. Did you ever hear of Aloha or Waltz, Michigan? Here are 20 unusually named Michigan cities for you to unscramble and match.



Indians and Early Explorers

The first Michiganders were Indians, living in the state for thousands of years before the first white man appeared. Etienne Brule, a Frenchman, was the first European to reach Michigan where he visited the Upper Peninsula in 1622. Some of Michigan's Indian tribes and explorers are hidden in this puzzle. Find them by looking across, backwards, up, down and diagonally.



INDIANS
CHIPPEWA
OTTAWA
PONTIAC
POTAWATOMI

EXPLORERS
BRULE
CADILLAC
CHAMPLAIN
GRENOBLE
JESUITS
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LASALLE
MARQUETTE
NICOLET

Answer Key

"Beautiful" Michigan

Michigan's flag and coat of arms have three Latin mottoes. Two are Michigan ones and the third is the United States motto. To find out what these mottoes mean in English, work out the secret code below. Each letter of the alphabet has been substituted for another. The word "beautiful" has been filled in to give you a head start.

I F YOU SEEK A BEAUTI F U L P E N I N S U L A, LOOK ABOUT
RU BLF HVVP Z YVZFGRUFO KV MRMH F O Z, OLLP ZYLFG

YOU.
BLF.

"Tuebor"

I WILL PROTECT
R DROO KILGVXG

"E Pluribus Unam"

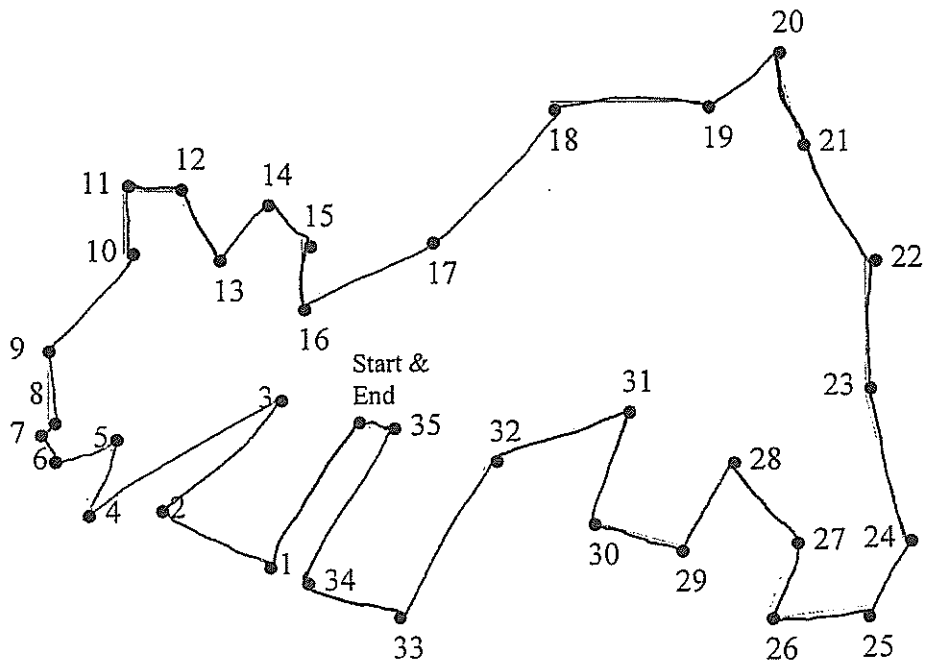
OUT OF MANY, ONE
LFG LU NZMB, LMV

Here is the alphabet to help you figure it out:
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

Answer Key

The Legend of Sleeping Bear Dune and the Manitou Islands

Many years ago a black bear swam across Lake Michigan from Wisconsin to Michigan. She was followed by her two cubs. It was a long journey and the cubs became so tired they lagged behind. When the mother bear reached the shore, she climbed up on a dune to watch for her cubs. But the cubs couldn't swim that far, so the Great White Spirit changed each cub into an island. They can be seen today as the North Manitou Island and the South Manitou Island off the shore of Lake Michigan where their mother, Sleeping Bear Dune, is still waiting for them.



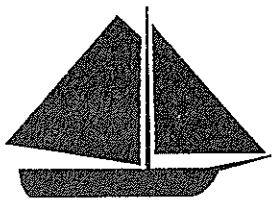
Answer Key

Seasonal Activities in Michigan

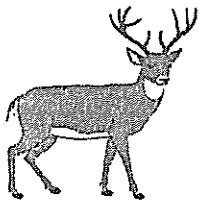
Tourists are attracted to Michigan during all seasons of the year because of all the things there are to do and see in the state. Can you unscramble the words to find out the attractions for each season? The first letter of each word is filled in to help you out.

Summer

1.	TINGABO	Boating
2.	GIIMMNSW	Swimming
3.	PINCGMA	Camping
4.	UTSNNHGBAI	Sunbathing
5.	LIGSINA	Sailing
6.	NEUD SGUBIEG	Dune Buggies



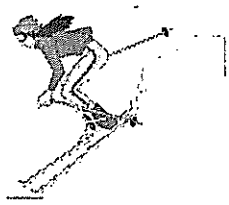
Fall



1.	OLORC TUOSR	Color Tours
2.	REDE NNIUHGT	Deer Hunting
3.	LMNOSA SHINIGF	Salmon Fishing
4.	DRBI IHNUGTN	Bird Hunting

Winter

1.	GSNKII	Skiing
2.	WSONBGIILMNO	Snowmobiling
3.	CIE SHFNIGI	Ice Fishing
4.	OOGGNNNAIBTG	Tobogganing
5.	ECI KNAIGTS	Ice Skating
6.	DDSENLGI	Sledding



Spring

1.	AEIOCNNG	Canoeing
2.	TTORU HIGFISN	Trout Fishing
3.	LUTPI AEFILSTV	Tulip Festival
4.	SASB HGSFIIN	Bass Fishing
5.	MRUOSOHM HINUGTN	Mushroom Hunting

Answer Key

Michigan's U.P.

Find the "up" words by filling them in from the clues.

1. Lake S u p e r i o r (One of the Great Lakes)

2. Maple s y r u p (Made from tree sap)

3. P u p (A young timber wolf)

4. U p p e r Peninsula (Northern part of Michigan)

5. u p h o l s t e r y (Important part of Michigan's furniture industry)

6. S u p p e r (A meal in Michigan that might include beef, corn on the cob and strawberry shortcake)

7. S o u p (You can make this with Michigan vegetables)

8. C u p b o a r d (Found in the kitchen, used to hold dishes)

9. S u p e r (Describes the kind of state Michigan is. Hint: similar to answer #6)

Answer Key

Poster of Michigan

On what date did Michigan become a state? 1837

What is the name of this national Park? ISLE ROYALE

Draw a picture of a moose Here

Houghton

SUPERIOR

Porcupine Mountains

Which National Lakeshore is found Here? PICTURED ROCKS

Marquette

Sault Ste. Marie

What are boat locks? WHERE BOATS ARE RAISED OR LOWERED BY ENCLOSED WATER

What two minerals were mined in this area? COPPER IRON ORE

Which waterfalls are found Here? TAHQUAMENON

Mackinaw City

Name this island MACKINAC

What is a peninsula? LAND ALMOST COMPLETELY SURROUNDED BY WATER

Escanaba

What fort is found here? MICHILIMACKINAC

Draw a picture of the Mackinaw Bridge

What foreign country does Michigan border? CANADA

Which National Lakeshore is found here? SLEEPING BEAR SAND DUNES

Traverse City

Hartwick Pines

Name the:

State bird ROBIN
State gem GREENSTONE
State animal WOLVERINE
State flower APPLE BLOSSOM
State fish TROUT
State tree WHITE PINE
State stone PETOSKEY
State nickname WOLVERINE STATE
State song MICHIGAN, MY MICHIGAN
State motto IF YOU SEE A LEEJANT PENINSULA, LOOK ABOUT YOU

What's your favorite Michigan fruit? CHERRY

What is a virgin forest? IT HAS TREES THAT HAVE NEVER BEEN CUT

When can you walk across the bridge? LABOR DAY

MICHIGAN

Grand Rapids

The governor of our state is JOHN ENGLER. He serves a 4 year term.

Lansing

What are these dunes called? WARREN DUNES

Who is the Lieutenant governor? MARTHA GRIFFITHS

Name this Lake ST. CLAIR

Detroit

Who was the first governor of Michigan? STEVENS T. MASON

What kind of automobile does your family own? FORD

ERIE

Label the Great Lakes that border Michigan. Which great Lake does not border Michigan? ONTARIO

NORTHVILLE

Where do you live? Don't forget to put your home town on the map!

☆ Color your Michigan Poster to show off its Beauty ☆

Answer Key

How Much Do You Know About the First Michigan Residents?

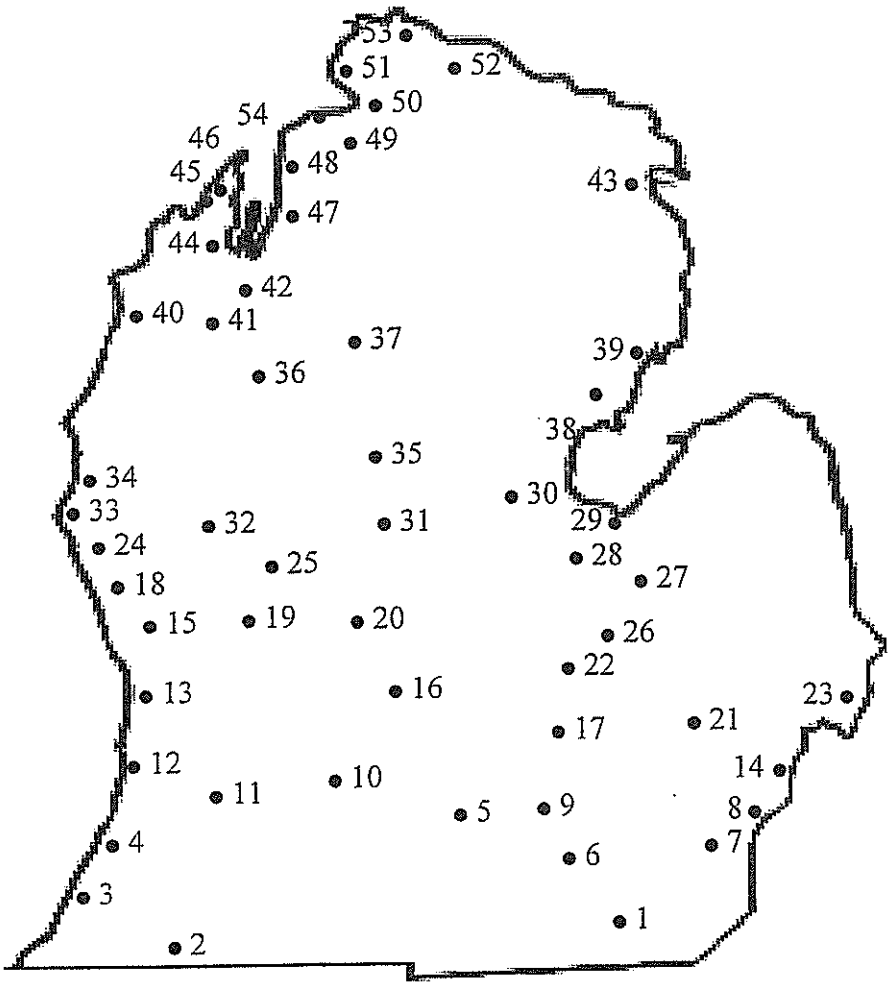
1. Name the three tribes of Michigan Indians Chippewa Ojibwa, Ottawa & Potowatomi
2. Which two tribes lived in wigwams? Ojibwa & Potowatomi
3. Which tribe lived in long houses? Ottawa
4. Which tribe were good hunters, trappers and fishermen? Ojibwa
5. Which tribe were farmers? Potowatomi
6. Which tribe was well known as traders? Ottawa
7. Describe the shape of a wigwam. looked like an upside down bowl
8. What is a dugout? Hollowed out logs
9. In which tribe did the men wear hair sticking up like a brush? Ottawa
10. What did the women do weaving of with corn husks and cattail leaves? mats & baskets
11. Which tribe wore clothes made from deerskins that were decorated with porcupine quills? Ojibwa
12. Which tribe's name means "People of the Rapids"? Ojibwa

Answer Key

Cities in the Lower Peninsula

Locate the following cities in the lower peninsula:

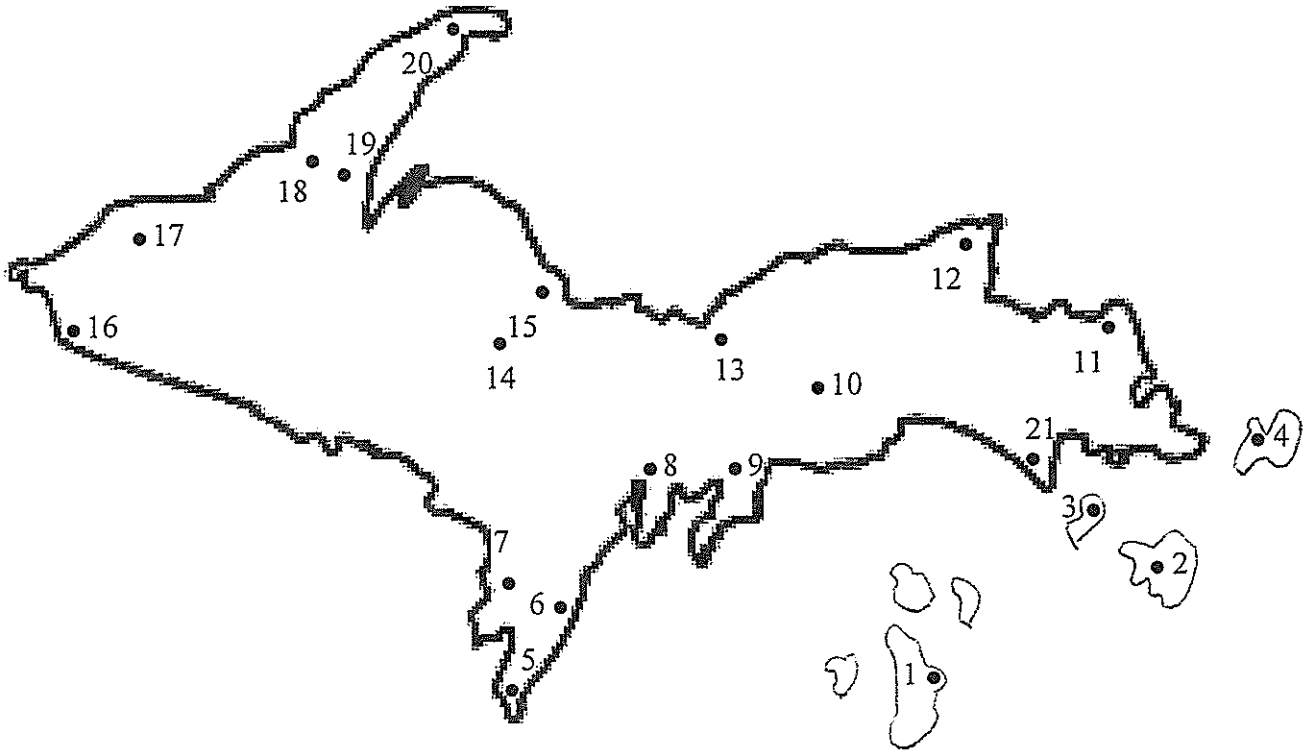
43 Alpena
_9_ Ann Arbor
10 Battle Creek
29 Bay City
_4_ Benton Harbor
32 Big Rapids
49 Boyne City
36 Cadillac
54 Charlevoix
52 Cheboygan
35 Clare
_7_ Dearborn
_8_ Detroit
16 East Lansing
48 Eastport
47 Elk Rapids
26 Flint
27 Frankenmuth
40 Frankfort
18 Grand Haven
19 Grand Rapids
25 Greenville
14 Grosse Pointe
51 Harbor Springs
15 Holland
22 Holly
37 Houghton Lake
17 Howell
41 Interlochen
_5_ Jackson
11 Kalamazoo
20 Lansing
45 Leland
33 Ludington
53 Mackinaw City
34 Manistee
30 Midland
_1_ Milan
31 Mt. Pleasant
24 Muskegon
_2_ Niles
46 Northport
39 Oscoda
50 Petoskey
23 Port Huron
21 Rochester
28 Saginaw
13 Saugatuck
12 South Haven
_3_ St. Joseph
44 Suttons Bay
38 Tawas
42 Traverse City
_6_ Ypsilanti



Answer Key

Cities in the Upper Peninsula

1 Beaver Island
2 Bois Blanc Island
20 Copper Harbor
4 Drummond Island
6 Escanaba
18 Hancock
19 Houghton
7 Iron Mountain
16 Ironwood
14 Ishpeming
3 Mackinac Island
9 Manistique
15 Marquette
5 Menominee
13 Munising
10 Newberry
17 Ontonagon
8 Rapid River
11 Sault Ste Marie
21 St. Ignace
12 Whitefish Point



Resources

www.michigan.org: Official Travel information from the State of Michigan.

Nokomis Learning Center
www.nokomis.org
Native Americans in Michigan. Children who visit the Nokomis Center will discover the exciting history of the Native Americans who lived in the Great Lakes region before the fur traders and white settlers arrived. Programs and exhibits designed by Michigan educators allow visitors to:

- See cultural artifacts.
- Handle and create Indian crafts.
- Listen to storytellers spin Nature lore.

The Center is "hands-on" adventure in doing, where children and adults can challenge their preconceptions, discover new roles, develop new skills, and explore the past and living traditions of Native Americans.

Michigan Historial Center
717 W. Allegan Street
Lansing, MI
(517) 373-3559
www.sos.state.mi.us/history/history.html

Michigan History Magazine
Subscriptions (800) 366-3703, or check your local library.

Michigan State University Museum
East Lansing, MI 48824
(517) 355-7474
www.museum.msu.edu

University of Michigan Exhibit Museum of Natural History
Ruthven Building
1109 Geddes Ave
Ann Arbor, MI
(734) 763-6085
www.exhibits.lsa.umich.edu

Resources
(continued)

Books:

Michigan and the Civil War: An Anthology
The first anthology ever published of *Michigan History's* wealth of Civil War articles. Selections include diaries, letters and the research of some of Michigan's most respected historians.

Fort Wilkins Yesterday and Today
Get a rare glimpse at nineteenth-century military life through biographies of key people who garrisoned the Keweenaw Peninsula fort dating from 1844. Enjoy the site–now a state park and museum–with a comprehensive walking tour and map.

Fayette Historic Townsite
Discover one of Michigan's most intriguing historic sites. More than a visitor's guide, this colorful publication offers the complete history of the Upper Peninsula iron-smelting town as well as a walking tour and map.

Father Marquette's Journal
New second edition. After founding two Michigan cities, the New World's most famous missionary kept a journal of his 1673 to 1675 exploration of the Mississippi River.

No Tears In Heaven
The moving story of Michigan's worst mine disaster, the 1926 cave-in at the Barnes-Hecker iron mine. New second edition features more photos. By Thomas G. Friggens.