# Mammals of the Arctic National Wildlife Refuge: Skull Box Identification Key

<table>
<thead>
<tr>
<th>Skull box</th>
<th>Animal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Snowshoe hare</td>
</tr>
<tr>
<td>2</td>
<td>Wolverine</td>
</tr>
<tr>
<td>3</td>
<td>Arctic ground squirrel</td>
</tr>
<tr>
<td>4</td>
<td>Lynx</td>
</tr>
<tr>
<td>5</td>
<td>Caribou</td>
</tr>
<tr>
<td>6</td>
<td>Grizzly bear</td>
</tr>
<tr>
<td>7</td>
<td>Weasel (Ermine)</td>
</tr>
<tr>
<td>8</td>
<td>Gray wolf</td>
</tr>
<tr>
<td>9</td>
<td>Collared lemming</td>
</tr>
<tr>
<td>10</td>
<td>Red fox</td>
</tr>
</tbody>
</table>

All skulls are full scale.

These skull boxes were created by the U.S. Fish and Wildlife Service with assistance from the Fairbanks North Star Borough School District and Toyota USA Foundation. Use of these skull boxes by educators for classroom and field purposes is authorized and encouraged. All other uses, please contact Cathy Curby at <arctic_refuge@fws.gov>.
Mammals of the Arctic National Wildlife Refuge: Skull Box 1

(See Skull Box identification sheet for skull identities.)

All skulls are full scale.

Instructions:
Print skull box page. (Print at or above 300 dots per inch (dpi) for sharpest results.)
Cut on purple line around complete box and tabs.
Fold along all folding lines.
Apply glue to tabs and glue box together.
(Before gluing the final side, you may wish to insert crumpled tissue so the box is more substantial.)

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Mammals of the Arctic National Wildlife Refuge: Skull Box 2* - Instructions

(See Skull Box identification sheet for skull identities.)
All skulls are full scale.

**Instructions:**

Print skull box pages. (Print at or above 300 dots per inch (dpi) for sharpest results.)

Cut on purple line around all box sections and tabs.

Fold along all folding lines.

Lay box sections on a flat surface to make gluing easier.

In the order indicated on each photo-tab, apply glue to a photo-tab, then glue that tab under the matching box side. (Refer to the small relationship diagrams to see how each section fits.)

When all the sections of the box are glued together, apply glue to the gray tabs, in the order indicated, to glue together the completed box.

(Before gluing the final side, you may wish to insert crumpled paper so the box is more substantial.)

[This skull was varnished, so it has an unusual glossy, yellow finish.]

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*Indicated skulls are from the University of Alaska-Fairbanks Museum collection.
Mammals of the Arctic National Wildlife Refuge: Skull Box 2* - Part B
Mammals of the Arctic National Wildlife Refuge:
Skull Box 2* - Part C

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*Indicated skulls are from the University of Alaska-Fairbanks Museum collection.
Mammals of the Arctic National Wildlife Refuge: Skull Box 2* - Parts D and E

Glue this tab tenth.

Glue this tab eighth.

Glue this tab seventh.

Glue this tab fifth.

Glue this tab ninth.

Relationship of parts D and E to complete Box 2.
Mammals of the Arctic National Wildlife Refuge: 
**Skull Box 3*  

(See Skull Box identification sheet for skull identities.)

All skulls are full scale.

**Instructions:**

Print skull box page. (Print at or above 300 dots per inch (dpi) for sharpest results.)

Cut on purple line around complete box and tabs.

Fold along all folding lines.

Apply glue to tabs and glue box together.

(Before gluing the final side, you may wish to insert crumpled tissue so the box is more substantial.)

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*Indicated skulls are from the University of Alaska-Fairbanks Museum collection.
Mammals of the Arctic National Wildlife Refuge:
Skull Box 4 - Part A

(See Skull Box identification sheet for skull identities.)

Instructions:
Print skull box pages. (Print at or above 150 dots per inch (dpi) for sharpest results.)
Cut on purple line around all box sections and tabs.
Fold along all folding lines.
Lay box sections on a flat surface to make gluing easier.
In the order indicated on each photo-tab, apply glue to a photo-tab, then glue that tab under the matching box side. (Refer to the small relationship diagrams to see how each section fits.)
When all the sections of the box are glued together, apply glue to the gray tabs, in the order indicated, to glue together the completed box.
(Before gluing the final side, you may wish to insert crumpled paper so the box is more substantial.)

Glue this tab last.

All skulls are full scale.

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Mammals of the Arctic National Wildlife Refuge: Skull Box 5* - Instructions

(See Skull Box identification sheet for skull identities.) All skulls are full scale.

Instructions:

Print skull box pages. (Print at or above 300 dots per inch (dpi) for sharpest results. Print on card stock to make a sturdier box.)

Working on one side of the box at a time, cut around the outside of each section and tabs.

In the order indicated on the tabs, apply glue to the green photo-tabs, then glue these tabs under their adjacent sections. Repeat with the yellow photo-tabs to complete the box side.

When all sides are complete, lay box sections on a flat surface to make gluing easier.

Continuing in the order indicated, apply glue to each tab, then glue that tab under the adjacent box side. (Refer to the small relationship diagrams to see how each side fits.)

When all the sections of the box are glued together, fold along all folding lines.

Apply glue to the remaining tabs, in the order indicated, to glue together the completed box.

(Before gluing the final side, you may wish to insert crumpled paper so the box is more substantial.)

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*Indicated skulls are from the University of Alaska-Fairbanks Museum collection.
Mammals of the Arctic National Wildlife Refuge:
Skull Box 5 - Left Portion of Side 1

All skulls are full scale.
Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Right Portion of Side 1
Caribou Mysteries

Mammals of the Arctic National Wildlife Refuge:
Skull Box 5 - Left Portion of Side 2

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Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Middle Portion of Side 2

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Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Right Portion of Side 2

Glue this tab ninth.

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Mammals of the Arctic National Wildlife Refuge:
Skull Box 5 - Left Portion of Side 3

Relationship of side 3 to completed box 5.
Glue this tab fifth.

Glue this tab sixth.
Mammals of the Arctic National Wildlife Refuge:  
Skull Box 5 - Left Portion of Side 4

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Mammals of the Arctic National Wildlife Refuge:
Skull Box 5 - Right Portion of Side 4

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Glue this tab fifteenth.

Glue this tab seventeenth.

Glue this tab nineteenth.
Mammals of the Arctic National Wildlife Refuge:
Skull Box 6* - Instructions

(See Skull Box identification sheet for skull identities.)
All skulls are full scale.

Instructions:
Print skull box pages. (Print at or above 300 dots per inch (dpi) for sharpest results. Print on card stock to make a sturdier box.)

Working on one side of the box at a time, cut around the outside of each section and tabs.

In the order indicated on the tabs, apply glue to the green photo-tabs, then glue these tabs under their adjacent sections. Repeat with the yellow photo-tabs to complete the box side.

When all sides are complete, lay box sections on a flat surface to make gluing easier.

Continuing in the order indicated, apply glue to each tab, then glue that tab under the adjacent box side. (Refer to the small relationship diagrams to see how each side fits.)

When all the sections of the box are glued together, fold along all folding lines.

Apply glue to the remaining tabs, in the order indicated, to glue together the completed box.

(Before gluing the final side, you may wish to insert crumpled paper so the box is more substantial.)

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Mammals of the Arctic National Wildlife Refuge:
Skull Box 6 - Lower Left Quarter of Side 1

All skulls are full scale.

Relationship of side 1 to completed box 6.
Mammals of the Arctic National Wildlife Refuge:
Skull Box 6 - Lower Right Quarter of Side 1

Glue these tabs third.

Glue this tab last (twentieth).

Relationship of side 1 to completed box 6.
Mammals of the Arctic National Wildlife Refuge:
Skull Box 6 - Upper Left Quarter of Side 1

Caribou Mysteries
science sleuths & detective math

Glue this tab second.
Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Upper Right Quarter of Side 1

Glue this tab first.

Relationship of side 1 to completed box 6.
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Mammals of the Arctic National Wildlife Refuge:
Skull Box 6 - Right Part of Side 2
Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Lower Left Quarter of Side 3

Glue this tab twelfth.
Mammals of the Arctic National Wildlife Refuge:
Skull Box 6 - Lower Right Quarter of Side 3

Glue this tab thirteenth.

Glue this tab tenth.

Glue this tab seventh.
Mammals of the Arctic National Wildlife Refuge:
Skull Box 6 - Upper Left Quarter of Side 3

Glue this tab sixth.

Box 6, upper left quarter of side 3

Relationship of side 3 to completed box 6.
Mammals of the Arctic National Wildlife Refuge:
Skull Box 6 - Upper Right Quarter of Side 3

Glue this tab fifth.

Glue this tab eleventh.

Relationship of side 3 to completed box 6.
Mammals of the Arctic National Wildlife Refuge:
Skull Box 6 - Left Part of Side 4

Relationship of side 4 to completed box 6.
Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Right Part of Side 4

Glue this tab eighth.
Mammals of the Arctic National Wildlife Refuge: Skull Boxes 7 and 9*

(See Skull Box identification sheet for skull identities.)

Instructions:
Print skull box page. (Print at or above 300 dots per inch (dpi) for sharpest results.)
Cut on purple line around complete box and tabs.
Fold along all folding lines.
Apply glue to tabs and glue box together.
(Before gluing the final side, you may wish to insert crumpled tissue so the box is more substantial.)

All skulls are full scale.

*Indicated skulls are from the University of Alaska-Fairbanks Museum collection.
Mammals of the Arctic National Wildlife Refuge:
Skull Box 8 - Instructions

(See Skull Box identification sheet for skull identities.)

Instructions:

Print skull box pages. (Print at or above 300 dots per inch (dpi) for sharpest results.)

Working on one side of the box at a time, cut on purple line around the sections and tabs.

In the order indicated on the tabs, apply glue to the yellow photo-tabs, then glue each tab under the other section of that box side.

When all sides are complete, lay box sections on a flat surface to make gluing easier.

Continuing in the order indicated, apply glue to each tab, then glue that tab under the adjacent box side. (Refer to the small relationship diagrams to see how each side fits.)

When all the sections of the box are glued together, fold along all folding lines.

Apply glue to the remaining tabs, in the order indicated, to glue together the completed box.

(Before gluing the final side, you may wish to insert crumpled paper so the box is more substantial.)

Relationship of all sides for Box 8.

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Mammals of the Arctic National Wildlife Refuge:
Skull Box 8 - Left Part of Side 1

All skulls are full scale.

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Mammals of the Arctic National Wildlife Refuge:
Skull Box 8 - Right Part of Side 1

Glue this tab first.

Box 8, right part of side 1

Glue this tab last (sixteenth).

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Mammals of the Arctic National Wildlife Refuge:
Skull Box 8 - Left Part of Side 2

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Glue this tab eighth.

Glue this tab seventh.

Box 8, left part of side 3

Relationship of side 3 to completed box 8.

Mammals of the Arctic National Wildlife Refuge:

Skull Box 8 - Left Part of Side 3

Caribou Mysteries

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Mammals of the Arctic National Wildlife Refuge: Skull Box 8 - Left and Right Parts of Side 4

Box 8, left part of side 4

Relationship of side 4 to completed box 8.

Box 8, right part of side 4

Glue this tab fourth.
Mammals of the Arctic National Wildlife Refuge: Skull Box 8 - Side 5

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Mammals of the Arctic National Wildlife Refuge:
Skull Box 8 - Side 6

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Mammals of the Arctic National Wildlife Refuge:
Skull Box 10 - Instructions

(See Skull Box identification sheet for skull identities.)
All skulls are full scale.

Instructions:

Print skull box pages. (Print at or above 300 dots per inch (dpi) for sharpest results.)
Cut on purple line around all box sections and tabs.
Fold along all folding lines.
Lay box sections on a flat surface to make gluing easier.
In the order indicated on each photo-tab, apply glue to a photo-tab, then glue that tab under the matching box side. (Refer to the small relationship diagrams to see how each section fits.)

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Mammals of the Arctic National Wildlife Refuge: Skull Box 10 - Part A

All skulls are full scale.

(See Skull Box identification sheet for skull identities.)
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Mammals of the Arctic National Wildlife Refuge:
Skull Box 10 - Part B
Mammals of the Arctic National Wildlife Refuge: Skull Box 10 - Parts C and D

Glue this tab fourth.

Glue this tab fifth.

Glue this tab sixth.

Glue this tab seventh.

Glue this tab eighth.

Glue this tab ninth.

Relationship of parts C and D to complete Box 10.