

EALT Kids



Species at Risk Adventure

Activity Book



Edmonton & Area
Land Trust

www.ealt.ca

This activity book belongs to:



môswa the moose needs your help!

He's not seeing some of his animal friends around
as often any more.

We have special words for when there are less
of a plant or animal around:

Endangered

It may disappear if we don't help

Threatened

It may become endangered if we don't help

Special Concern

It may become threatened if we don't help

Meet your local guide....

Tham the Garter Snake



Fun Fact: The Red-sided Garter Snake is a non-venomous species found in the Edmonton area! Its scientific name is *Thamnophis sirtalis*, that's why we call him Tham.



Complete all 10 activities to help mōswa save his friends!

**Special
Concern**

Barred Owl



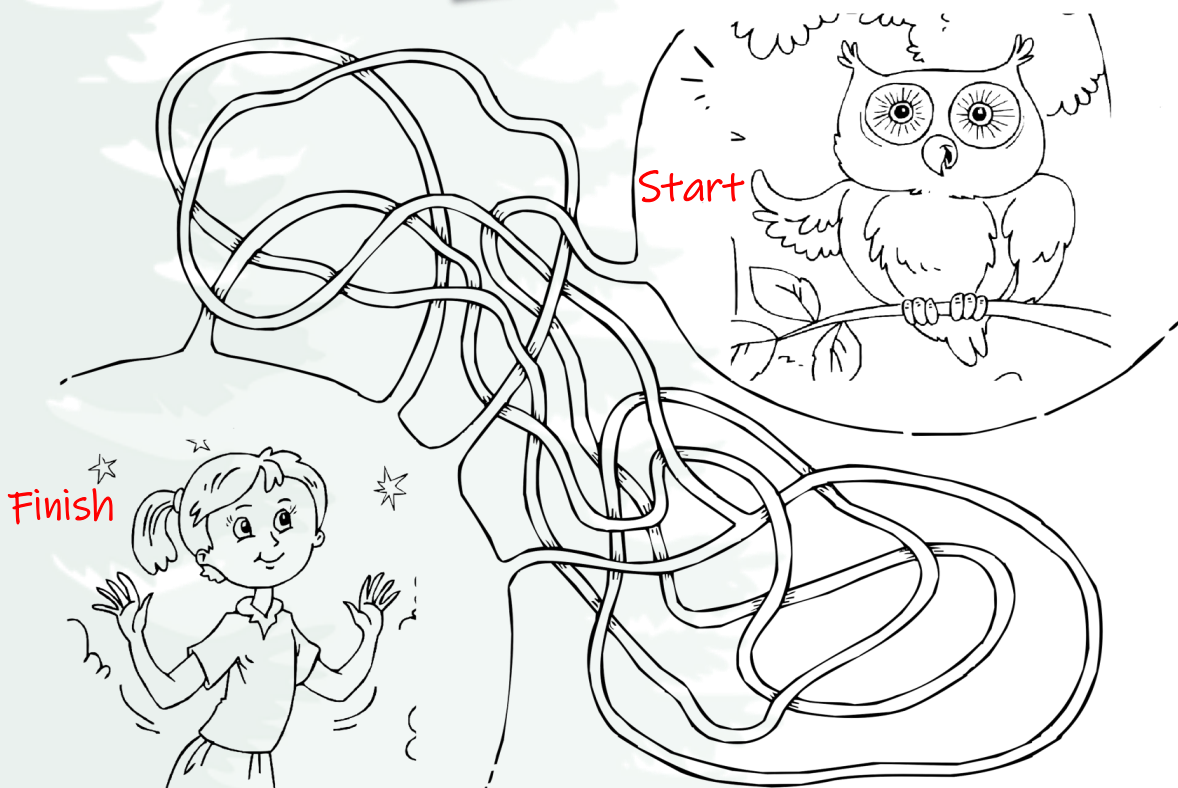
The biggest threat to me is habitat loss!



A forest with large trees is where I like to call home



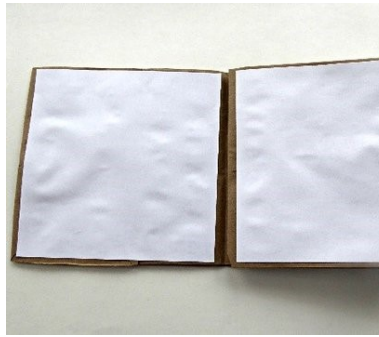
I use holes in these trees to make my nest



My Nature Journal

Owls have a great sense of sight and hearing. This helps them find their food, such as mice, in a large forest.

Use your nature journal to record neat things you see or hear while out on your nature adventures!



What You'll Need

- Paper
- Scissors or paper cutter
- Brown paper lunch bags (2 bags makes an 8 page book)
- Glue stick
- Hole punch
- Ribbon or string

What To Do

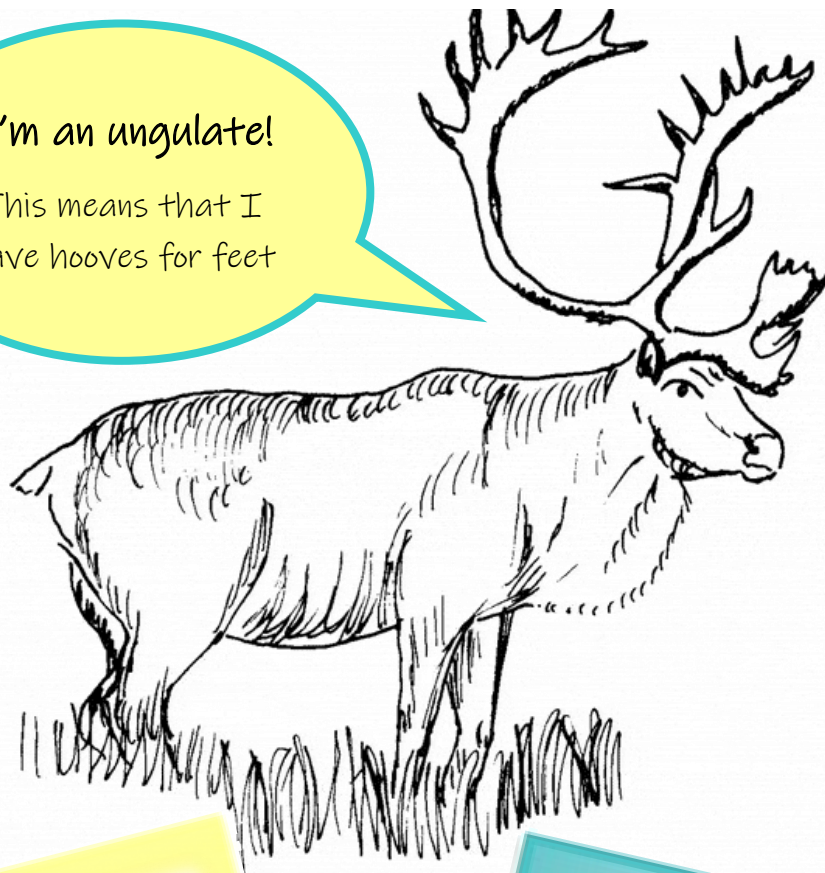
- Glue or tape down the flaps on each bag.
- Stack two bags in alternating directions and fold the bags in half.
- Cut paper into 5" x 5" (12.5 x 12.5 cm) squares to fit onto the pages. You'll need 8 squares if you used 2 paper bags, or 12 squares for 3 paper bags, etc.
- Glue paper onto the pages of your journal.
- Use the hole punch to punch holes through the book along the spine.
- Lace ribbon or string and it on the top cover.
- Take your journal outside to draw, write or collect nature treasures.

Threatened

Woodland Caribou

I'm an ungulate!

This means that I
have hooves for feet



Habitat being lost and broken into smaller sections is a big threat to me!



I love lichen and I can find lots in old growth forests. These places are very important to me!

Which Ungulate Are You?

Caribou are just one of the types of ungulates, or hoofed animals, that live in Alberta

Take the quiz to find out which type of ungulate you are!

Start

Do you like to hang out with groups of people?

YES

Do you like to explore new areas and see new things?

YES

Do you like to sing or play instruments?

NO

Do you like swimming or hanging out near water?

NO

YES

NO

YES

NO

You're a Moose!



They prefer to spend their time alone and in the summer are found eating near lakes and wetlands

You're an Elk!



They are very sociable, and although they travel less than caribou, they are more vocal with their bugle calls!

You're a Caribou!



They spend their time in large herds and are constantly on the move in search of more food

You're a Deer



They can be found in small groups or alone. In the spring, babies are left alone when mom searches for food.

Threatened

Lake Sturgeon

I can grow to be
100 years old!

I live in lakes,
and rivers too!



Overfishing, dams
and bad water
quality can hurt
how many of us
there are.



Water Filtration Experiment

What You'll Need

- 6 bottles, all the same size (2L or 500ml)
- Plywood or cardboard that will fit 3 of your bottles on it
- Hot glue gun
- Permanent marker
- Potted plants
- Woodchips or mulch
- Potting soil
- Hole punch
- String
- Scissors
- Water



What to Do (ask an adult for help)

- Use the marker to draw an outline for a large opening on the side of 3 of your bottles. Cut open the bottles along the outlines that you drew.
- Use a hot glue gun to attach the other 3 bottles to a piece of cardboard or plywood, with the openings of the bottles facing up.
- Cut the other 3 bottles in half horizontally (use these to collect the water)
- Using a hole punch, make two holes (one across from the other) in each of the collection bottles to attach a string to hang them.
- Cut 3 pieces of string to attach to each of the bottles you just hole punched. Tie the string on like a handle, so that you can hang these bottles from the necks of the other bottles.
- Once you have the collection bottles hanging in place on the necks of the 3 filtration bottles, add soil to each filtration bottle through the large opening you cut out in the second step.
- Now for the variables! You are trying to test to see which soil environment will produce the cleanest water, so do the following with each of your filtration bottles:
 - Bottle 1: Just add soil
 - Bottle 2: Add soil and then woodchips on top
 - Bottle 3: Add soil and plant flowers or other type of plant (not just seeds)
- Pour an equal amount of water into each of the filtration bottles until you start seeing the water flow out of the cap and into the collection bottles.

Ask Yourself

- Lake Sturgeon like clean water. Which soil environment worked the best to clean your water?
- What does this teach about how land and water are connected?
- Write about this in your nature journal, or draw a picture of what the land around rivers should look like in order to make the water a good place for fish to live.

Endangered

Little Brown Bat



I like to hide in caves or houses,
and I hibernate in winter



White Nose Syndrome is
killing lots of bats!



You can build or put up bat boxes
to give us more places to live



I can eat up to
1000 mosquitoes
in just 1 hour!

Since bats help us by eating lots of mosquitoes, let's help this Little Brown Bat by drawing a nighttime scene, with lots of insects, and a bat box or cave to live in!

Super Hearing Sound Map

I'm not blind, but since I'm nocturnal I choose to rely on my excellent sense of hearing. Bats use echolocation, making clicking sounds that bounce off objects and back to their ears to hear what's around them.

Your challenge is to try to hear as well as a bat!

Go out to your backyard or a natural area, sit down, close your eyes, and listen for different sounds. Imagine a large bubble all around you.

Draw or write below what you're hearing and where you think it's located.

YOU ARE HERE



Endangered

Wood Bison

Over-hunting during the fur trade and loss of habitat have reduced our numbers.

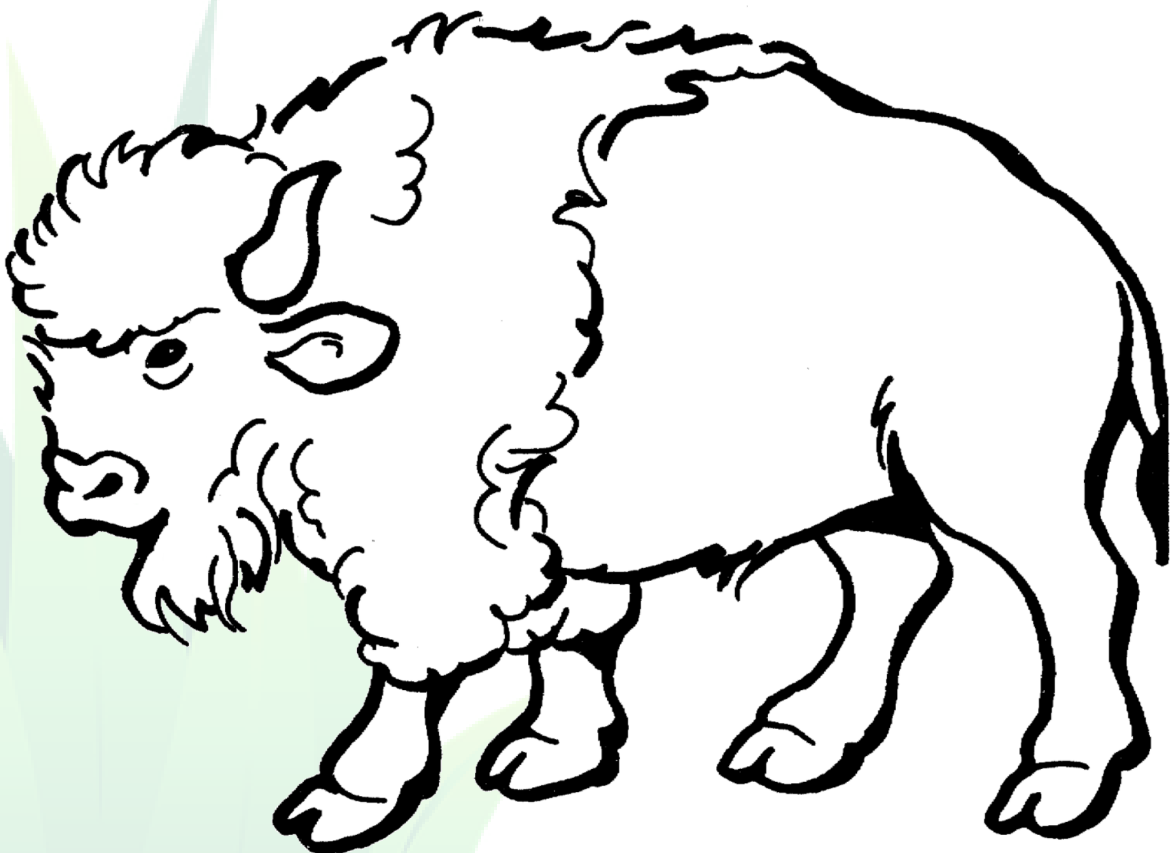
Luckily, now our numbers are increasing!

We mostly eat grass, even in the winter time.

Having protected grasslands are important to us!

Elk Island National Park is close to Edmonton, where you can see us.

But don't get too close, we need our space!

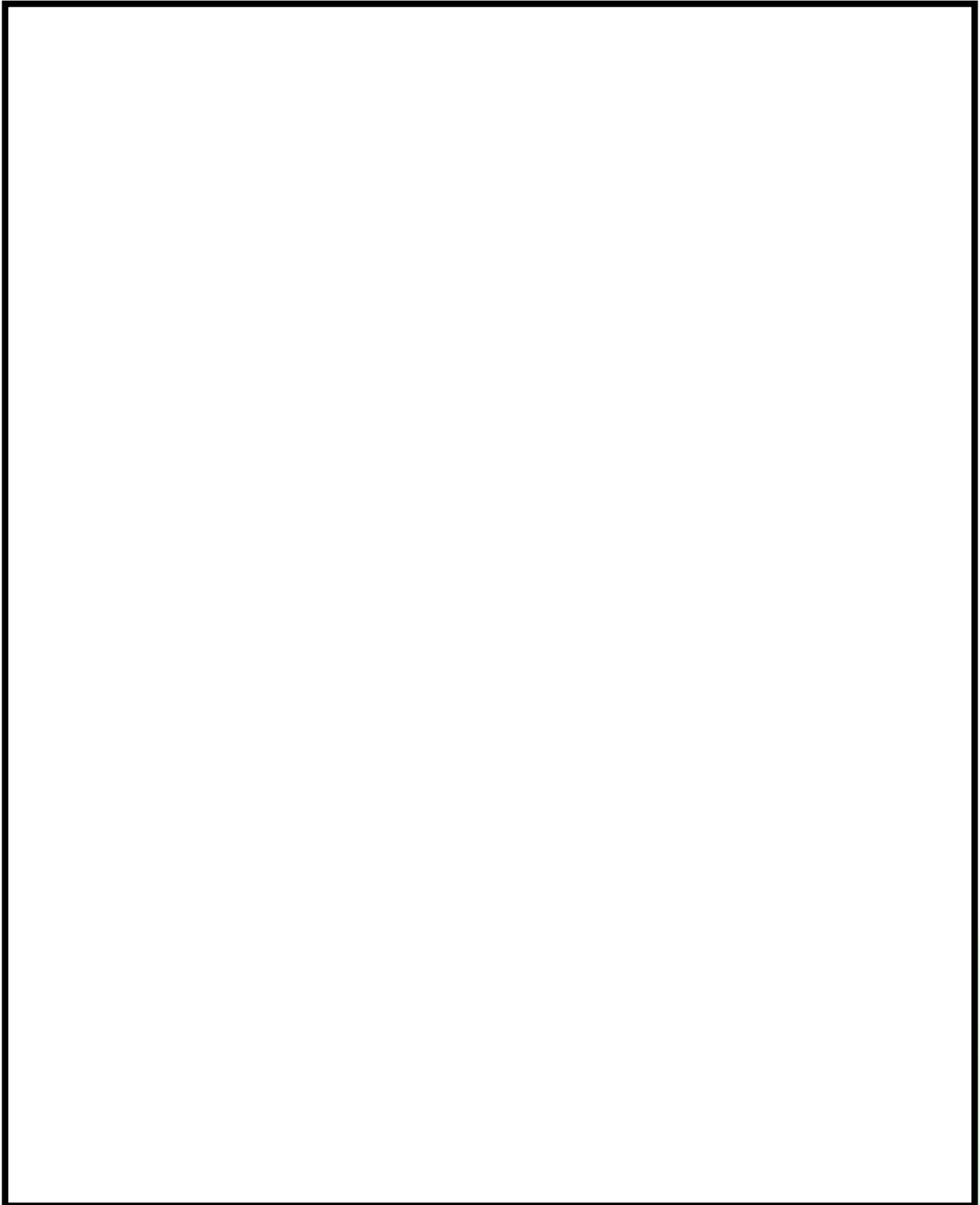


My Conservation Poster

Your voice is powerful and can help teach others about protecting wildlife!

Your challenge is to create a conservation poster that teaches others about how neat Wood Bison are, but also how they need to be protected.

Feel free to ask an adult for help doing more research on this animal, if you like.



Threatened

Northern Leopard Frog



You can spot my green or brown body with spots



A big threat is the loss of my wetland habitat



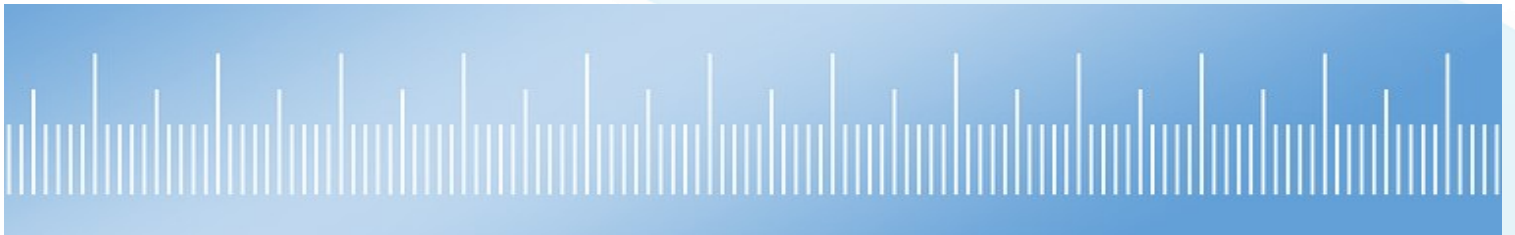
My tadpoles need clean water with no pollution in it

Did you know?

I can jump 5-6 feet in a single jump!

Try it at home!

How far can you jump?



Amphibian I-Spy

Frogs and toads are both amphibians, but they have their differences.

Can you spot the differences between the frog and toad?

Frogs

- Long Legs
- Smooth Skin

Toads

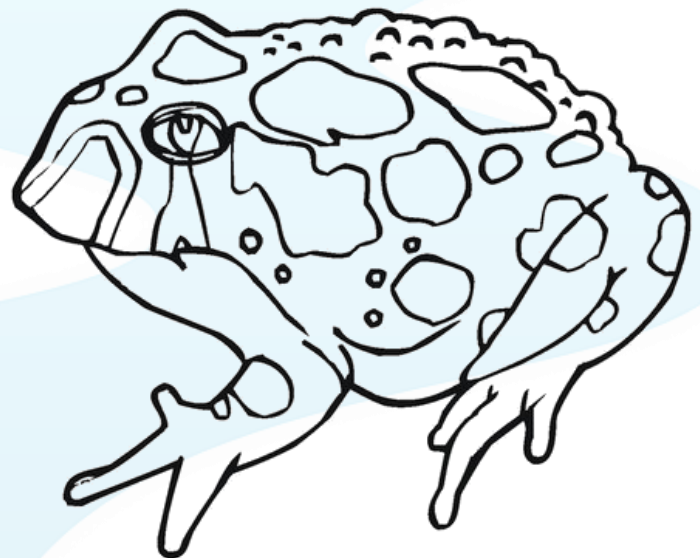
- Shorter Legs
- Bumpy Skin

Frog



twistynoodle.com

Toad



twistynoodle.com

Threatened

Canada Warbler



Some major threats to me are loss of forested habitats, and hunting by outdoor cats

There are many other kinds of songbirds in the forest.

They come in many different patterns and colors!

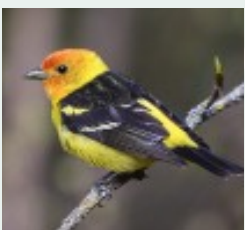
Can you draw in different kinds of birds into this forest? Color all the plants too so that the birds have habitat for shelter, food, and a place to have their babies.



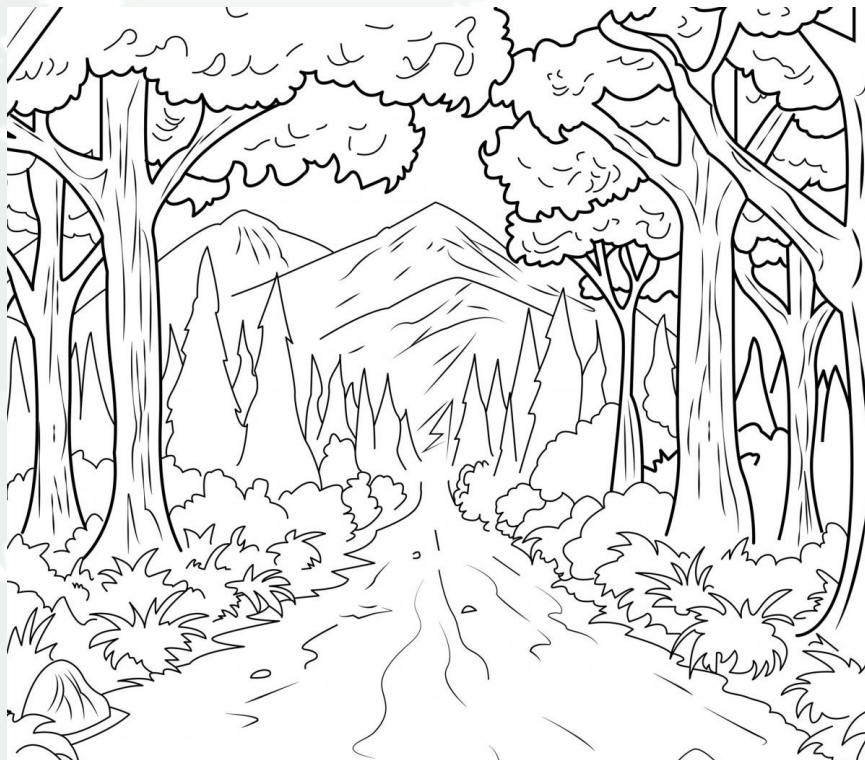
American Robin



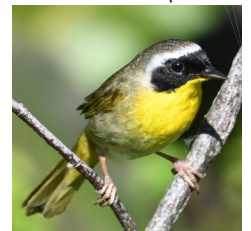
Redpoll



Western Tanager



Blue Jay



Common Yellowthroat



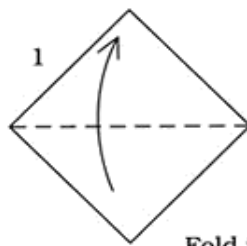
American Redstart

Bird Origami

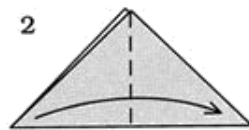
Outdoor cats can be a major threat to all songbirds.

Help our bird friends by creating a fun origami bird toy for your cat or for yourself to play with indoors.

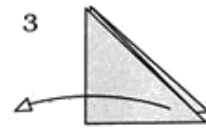
You will need a square piece of paper, a hole punch, string (about 2-3 feet long) and a stick.



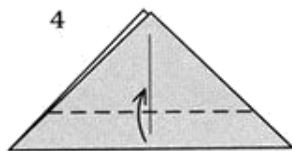
Fold in half.



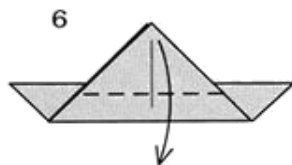
Fold in half.



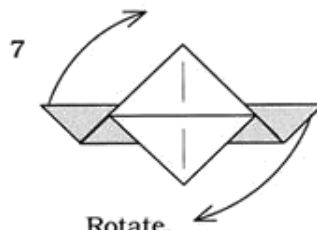
Unfold.



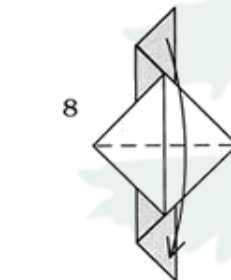
Turn over.



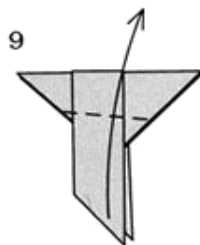
Fold one layer down.



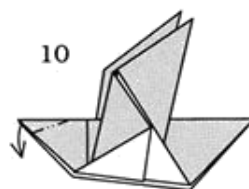
Rotate.



Fold in half.



Fold the wing up, repeat behind.



Fold the beak.



Pigeon

Once your bird is all folded, use the hole punch near the head or back of the bird. Tie one end of the string to the hole and the other to the stick.

Now you have your very own bird flyer!

Endangered

Monarch Butterfly



Habitat loss,
climate change and
pesticides can hurt
us and other
pollinator friends.

Help us by planting
native wildflowers.
We especially love
Milkweed!



There are lots of other kinds of pollinators found in Alberta,
including butterflies, moths, hummingbirds and bees.

Learn more at: www.ealt.ca/protecting-pollinators



Artwork contributed by Seedles LLC, Daly City, CA

Make a Butterfly Feeder

What You'll Need

- Plastic plate or container lid
- Hole punch
- String
- Beads (optional)
- Butterfly food: cut up fruit (oranges, bananas and the peels, strawberries)



What to Do

- Use the hole punch to punch 3 holes around the rim of the plate, evenly spaced out. These holes are where you will attach the string to hang your butterfly feeder up.
- Cut 3 pieces of string to the same length - about 12 inches long.
- Using one piece of string per hole, tie one end of the string to the plate through the hole you made.
- You can choose to use colorful beads to decorate the strings of your butterfly feeder.
- Tie all 3 strings together at the top (the other end of the string not connected to the plate).
- Cut up your butterfly food and place it on the plate.
- Hang up your feeder in a tree in your yard! Hang it near other plants and flowers so it will attract butterflies and bees.

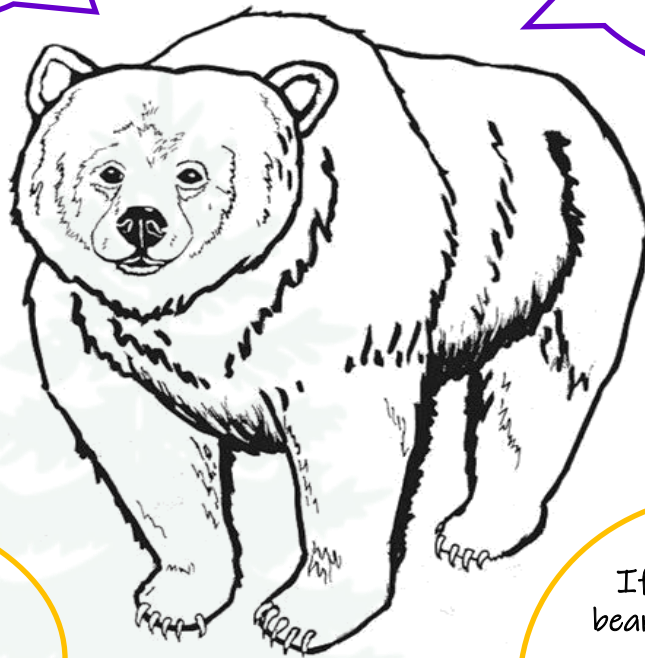
Write or draw which insects/pollinators come to visit your feeder in your nature journal.

Threatened

Grizzly Bear

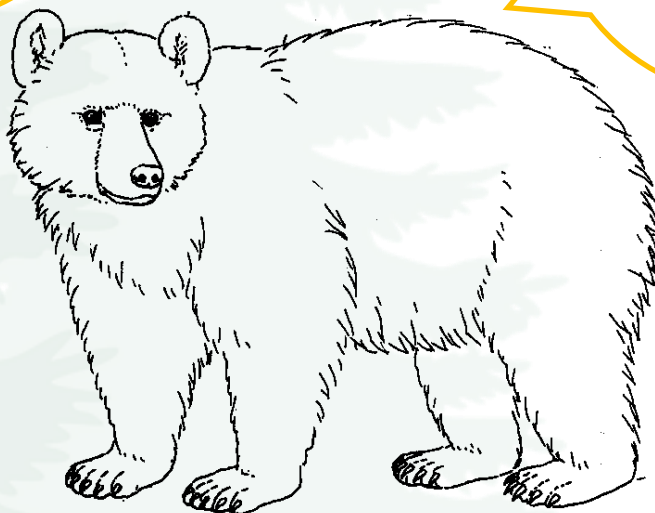
I'm a Grizzly Bear.
You can tell by the
hump on my back and
my disk face shape

Threats to me:
Habitat loss and
human
disturbance



I'm a Black Bear.
I don't have a hump
and I'm more common
close to cities

If you run into a
bear, make sure you:
Don't yell or run.
Back away slowly
while still facing the
bear.



Bear Survival Scavenger Hunt

Bears like to eat lots of kinds of food to help get ready for winter.

Can you find all of these in a natural area near you? Please only LOOK, don't take.

The only thing you should pick up is the litter. This is a good idea on any nature walk.

Insect	Round Leaf	Dead Tree
Colorful Flower	5 Pieces of Litter	Colorful Berry
Plant Root	Long leaf or piece	Mushroom

Bear Bark Rub

Grizzly and Black Bears love to rub their backs on trees.

They do this to mark their scent and let others know they are around.

Bring a crayon with you and find a tree with some neat bark. Place this sheet of paper on the tree and use the long side of the crayon to rub on the paper. You've just created bark art!



**Special
Concern**

Peregrine Falcon

Good News Report



**The Peregrine Falcon
is no longer
Endangered!**

Their numbers used to be very low due to a pesticide, DDT, that hurt adults and caused eggs to crack easily.

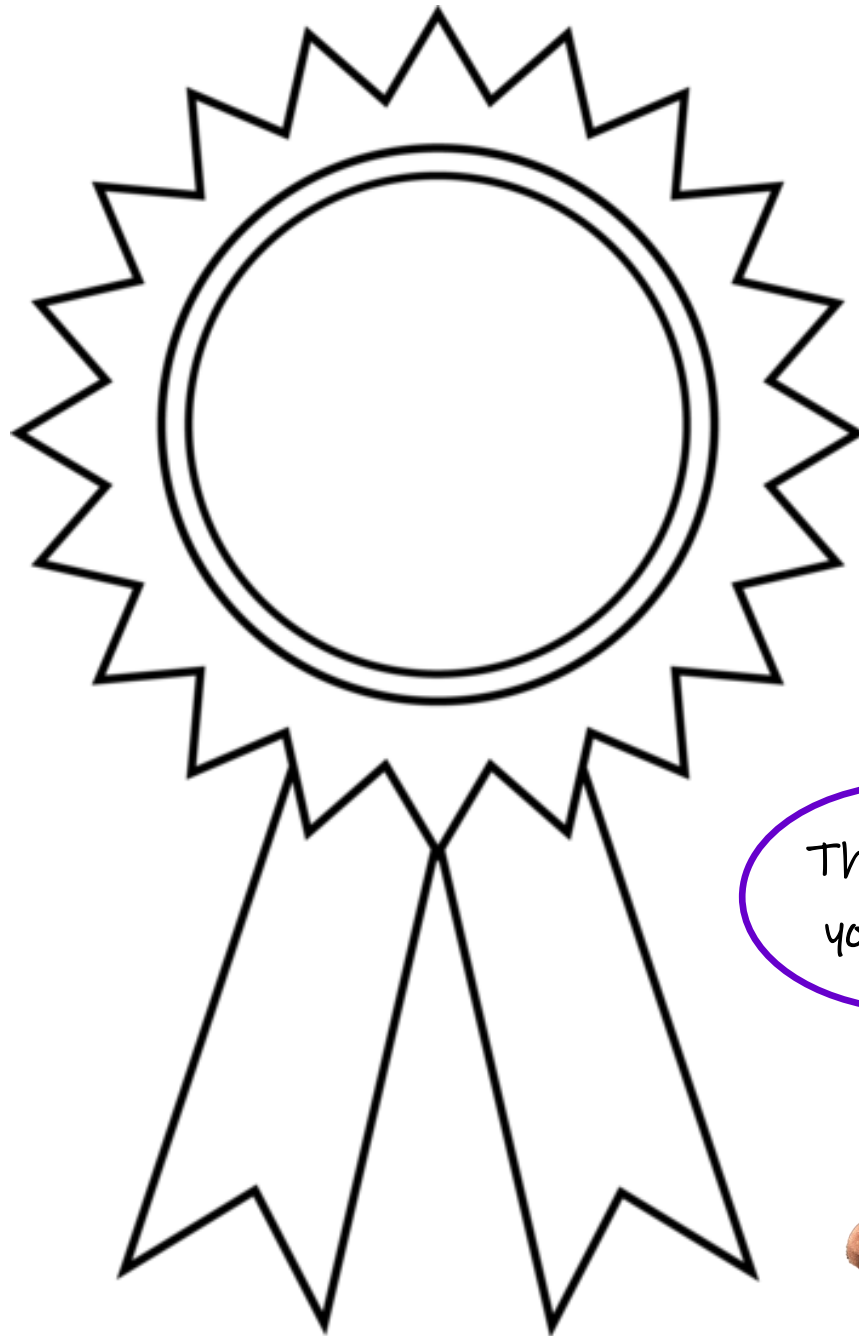
Thanks to people like you who care about wildlife and want to learn how to best

protect them, the species is recovering.

More work needs to be done in order for the species to completely recover, so keep supporting the protection of this, and other unique species!

Congratulations on completing all 10 activities!

Design your own award and keep it as a thank you for learning about and helping to protect wildlife!



Thanks for
your help!





The Edmonton and Area Land Trust is a charity dedicated to conserving important natural areas in the Edmonton region. Our conservation lands provide essential habitat for wild species, opportunities for local residents to connect with nature, and provide numerous environmental, social and health benefits for everyone.

You can conserve local nature by volunteering or donating!

Contact us for more information:

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www.ealt.ca

Visit www.ealt.ca/resources for more nature resources.

Visit www.ealt.ca/kids for ideas for getting kids outside and learning about nature.

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**TD Friends of the
Environment Foundation**