Meet The Duck Defenders!

Episode 4

As the bright light fades away, you find yourself in a treehouse. It looks like Professor Evan has left you another note!

Welcome to the town of Marshdale! I sent you here to learn about the importance of wetlands from the Duck Defenders, local kids just like yourself who work to keep this special place safe. Use their journal to learn about a few of the important creatures that make their home around wetlands.

DUCK DEFENDERS JOURNAL ENTRY 27

Frogs can get sick very easily when humans don't take care of wetlands. Because of this, seeing how many frogs are in an area can be a good way to tell if the wetlands are healthy.

DUCK DEFENDERS JOURNAL ENTRY 34

Beavers like people are master makers. They create dams and move plant life which helps keep the whole wetland healthy. An Anishinaabe teaching tells us that we know the land has gone bad when even the beaver leaves it.

Activity Instructions:

Choose one of the following frog or beaver models and create it!

- Beaver paper model (easy)
- Fox origami (easy)
- Frog origami (easy)
- Frog paper model (hard)
- Next time you get a chance to go for a walk with your family, keep your eyes open for frogs and beavers! And remember the roles they play in wetlands!

You've learned what Profesor Evan wanted you to learn, but where is the key? Why would he send you here to learn when you need to be collecting the keys to open Atlantis?

The time machine starts to light up and suddenly you're in Ancient Greece...

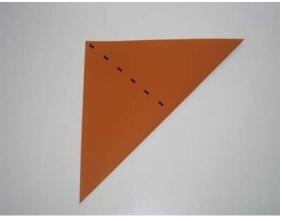
To be continued next week...

Fox Origami Steps (Using Brown Construction Paper is Recommended)

Step 1: Start with a square paper, (whether you already have a square paper or you have to cut a rectangular one) Fold along the dashed line shown below.



Step 2: Fold the paper in half along the diagonal as shown on the dashed line below, crease and unfold.



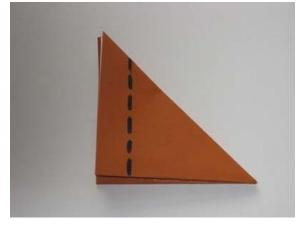
Step 3: Now bring both the top right and bottom left tips to meet at point A as shown in the picture below.



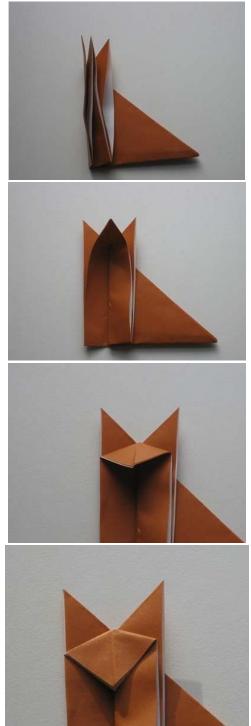
Origami Fox Step 4: Now we fold the entire paper in half on the diagonal shown below. Notice "-.-." means that this is a mountain fold. So the crease should remain at the top. We fold both the tips Y and Z down.



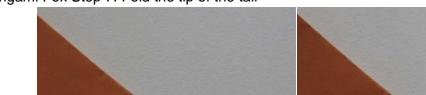
Origami Fox Step 5: Make a fold on the dash line shown below. Crease well.



Origami Fox Step 6: Unfold the crease you just made in Step 5. As you do so, you'll notice that there's actually 3 layers of paper! We're going to make a squash fold on the middle layer to form the face of the fox.



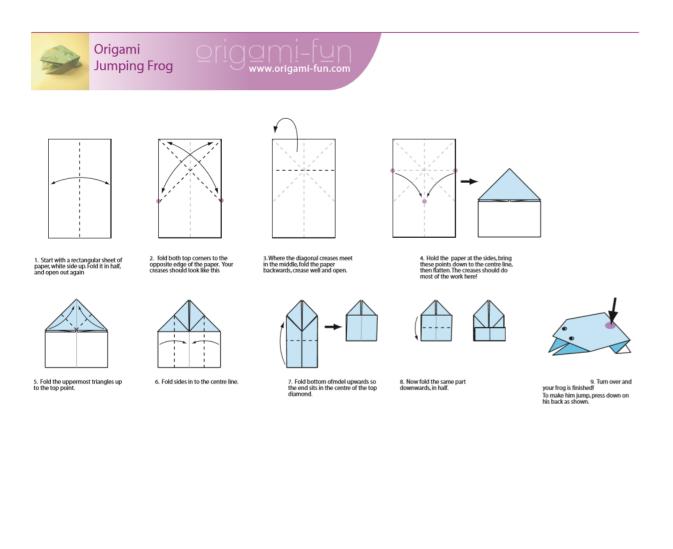
Origami Fox Step 7: Fold the tip of the tail



Origami Fox Step 8: and your origami fox is complete!



Origami Jumping Frog:



Beaver Paper Model



Wetlands are Wonderful!

Wetlands help keep our drinking water clean.

Wetlands are home to wildlife around the world. This includes one third of North America's threatened and endangered wildlife species.

Wetlands store water during droughts.

Wetlands help to reduce flooding.

Wetlands are important resting, feeding and breeding areas for migratory birds.

When we protect wetlands, we keep the whole planet healthy.

Ducks Unlimited Canada is an environmental charity made up of people who know this. We have worked with others to conserve wetlands since 1938. We know good things happen when people work together!

Get to know your local

îhkatawâwa kihcîtâkwana! (îhkatawâwipeyâwa)

îhkatawâwa kanâcihtâwak nipiy kâminihkweyahk.

îhkatawâwa ohci pimâcihowak nanâtohk pakwaci pisiskiwak kâ-espîhcâk askiy.

mina ôma kîwîtino kihci-ministik wîkiwak nanâtohk pisikiwak kîkâc kâ mîscinecik.

îhkatawâwa mina miciminamwak nipiy kâ-pâstewaskâk.

îhkatawâwa wîcihtâsiwanwa ekâ kita-eskipek/pastipîk.

îhkatawâwa otâyiwîpîwiniwâw, otâsamisiwiniwâw, mina onôcihtowiniwâw nanâtohk peyisîsak kâpî kîwehahkik.

kîspin kânâkatohkeyahk îhkatawâwa kiwîcihtânaw kita-miywâyât kikâwînaw askiy misiwe.

Ducks Unlimited Canada kâtoskâtahkik kihayâwewinaw kiskîyihtamwak ôma. aspin ohci 1938 niwîcihânânik kotakak kita nâkatohkîyîah îhkatawâwa ekâ kita wanihtâyahk. kikiskîyîhtenaw kahkiya kîkway miyo atoskemakan kâ mâmawi wîhkôyahk.



Beaver

"Busy as a beaver" is an old saying with a lot of truth. Beavers dam up streams to create wetlands and build large homes of logs and mud, called lodges. They appear to be at work all the time. Perhaps that is why some of Canada's First Nations believe the beaver helped to build the earth.

Amisk

"canawîw tâpiskoc amisk" kayâs itwewin mâna kâtâpwemakahk. amiskwak mâna osîhtâwak oskwatima ekwa misiwâskahikana sîpîhk ehapacihtâcik asiskiy ekwa mîtosa kita meshahkik oskwatim ahpô wîkiwâwa.

ihkatawâwa kiskinohamâsôwin

kapîyi mâna atoskewak. eyako mâna ohci îyiniwak kâ itwecik amisk eki wîcihtâsot kikâwinaw askiy kâki osihtâhk.

We all recognize the beaver by its wide flat tail which helps it balance on land when it is cutting down trees or dragging them over land to build or repair its dam or lodge or simply to have as a snack. That's right - the beaver's main food is the bark and twigs of trees! The beaver's tail also helps it to steer itself when swimming. This is important since the lodge has underwater entrances. These make it difficult for a predator to sneak up on the beaver or its family.

To create your own animal model

follow the steps on the back page. But wait, wetlands are full of life! There are other creatures in this series, each with its own story. Visit our website at education.ducks.ca to download other wildlife models. Then you, your family or friends can create more creatures and even build your own wetland. semâk kinistawinawânaw amisk kâhayakaskâyik mîna kânapakâyik osoy.

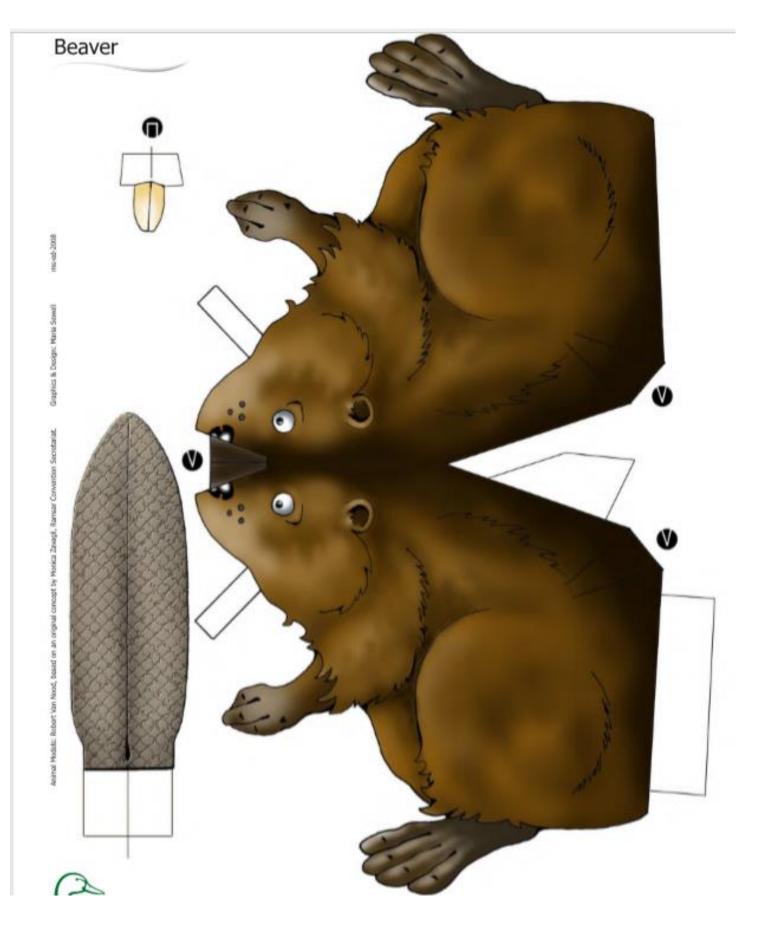
osoy mina ewicihikot kâ nepwit mîtosa kâ kawamât ahpo kâpimitâpît ôma kâwi mesahahk oskwatim ahpo mîna kâwi mamîcisot. tâpwe, amisk omiciwiniw wayakîskwa mîna watapîya. amisk osoy mîna wîcihikiw kâpimapôyot. eyako apacihikiw osâm iskwahtema ehayâyiki atamipîhk ekâ kotakayi pisikiw kita kîmoci pihtokwet.

kita osihtamasoyan ki amiskohkân

pimitisaha anima kâ masinahikâtek otahk oma masinahikan. cîskwa, sakaskinew pimâtisiwin îhkatawâhk. kotakak mina pisikîsak îhtakowak, wîstatwâw ayâwak tipiyaw acimowins. pekihokawinân ôta mâmawi ayapîhkîwasinahikanihk *education.ducks.ca* kotakak mîna pisiskîsak kâhki nihtâwatâwak ikota ohci kita osihtamâsoyan pisiskîhkânisak.

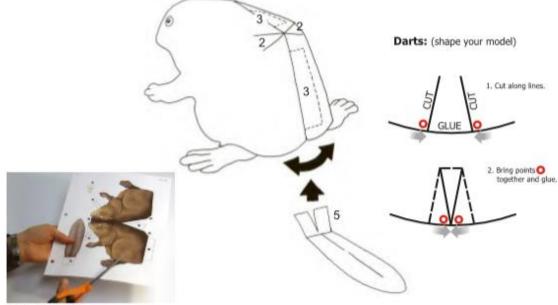
kiya mîna kitotemak kâhki osihtanâwâw îhkatawâw. kîspin peyak pisiskisîs kitayimihik kotak nawac ewicisit nawasôn.





To make your paper model

You will need: scissors, glue for paper (glue sticks work well)



1.Cut out all pieces.



2. Cut and glue the 3 darts on the body and head.



3. Glue back together using tabs.



Overlap and glue chin tabs.

A



 Cut tail tab in half. Glue tail to body. (see B)



Cut teeth tab along line and glue in place.

Frog Paper:



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Get to know your local wetlands - you will love them!

^{습지대는} 경이롭습니다!

습지대는 우리의 마실 물을 깨끗하게 지켜줍니 다.

습지대는 전세계 야생 생물의 서식지입니다. 이곳은 멸종의 위협을 받고 있는 북미 야생종의 3분의 1이 서식하는 곳이기도 합니다.

습지대는 가뭄동안 물을 저장합니다.

습지대는 홍수를 예방합니다.

습지대는 철새들이 이동할 때 중요한 번식과 휴 식장소이기도 합니다.

우리가 습지대를 보호해야 지구 전체를 건강히 보전할 수 있습니다.

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여러분이 살고 있는 지역의 습지대를 관찰하십 시오 - 곧 습지대를 사랑하게 될 것 입니다!

Create your own wetland work 습지대 세계를 만들어 보십시오

Leopard Frog

Frogs appear in fairy tales from many countries - usually telling a tale of a handsome hero changed into a frog and only able to be changed back by magic. Perhaps this is because the frog's life is one of magical changes. The frog starts out its life as part of a gooey mass of eggs attached to a plant stem underwater. The egg hatches into a tadpole which lives in water but then starts to grow legs, eventually becoming a completely different creature – a frog which can hop and move over land.

There are many kinds of frogs in the world and they all depend on water for part of their life. The leopard frog is one of the most common frogs in Canada. It feeds on insects, crustaceans and sometimes other frogs. But, of course, frogs and tadpoles are food for fish, birds, raccoons and other animals.

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참 개구리

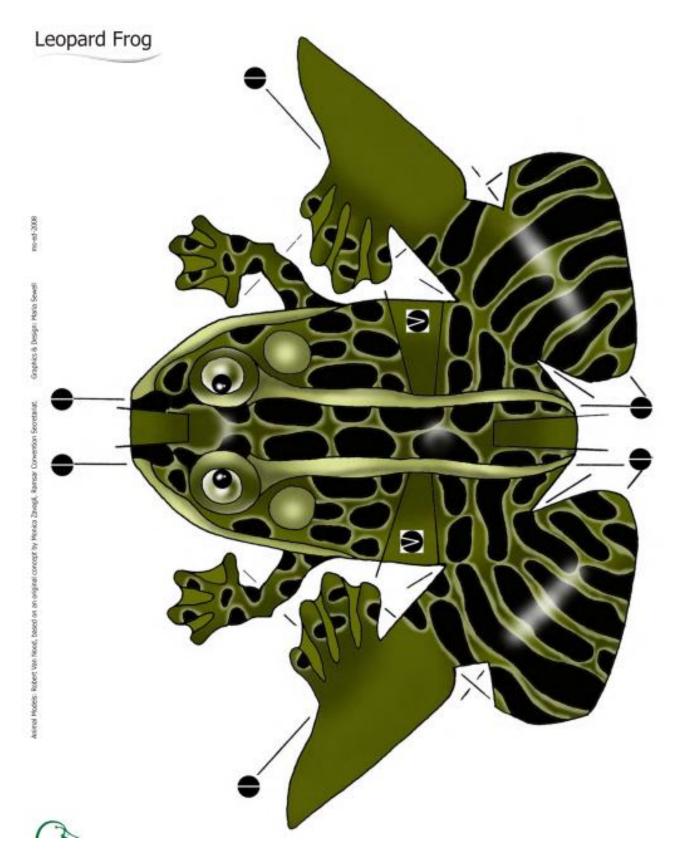
많은 나라에서 개구리는 대체로 잘생긴 주 인공이 개구리로 바뀌고 마법에 의해서 사 람으로 돌아오는 이야기가 담긴 동화속에 등장합니다. 아마 개구리의 생태가 마법과 같은 변화를 거치기 때문일것입니다. 개구 리는 물속 나무 줄기에 붙은 끈적끈적한 한덩어리 알의 상태로 생명이 시작됩니다. 알은 물속에서 올챙이로 부화하며 다음에 는 다리가 자라기 시작하여 마침내 땅 위 에서 뛰고 움직일 수 있는 완전히 다른 생 물체인 개구리가 됩니다.

개구리는 많은 종류가 있으며 일생동안 어 떤 시기는 물에서만 지냅니다. 참개구리는 캐나다에서 흔히 볼 수 있는 개구리중의 하나입니다. 참개구리는 곤충, 갑각류그리 고 다른 개구리를 잡아먹습니다. 그러나 개구리와 올챙이 역시 물고기, 새, 너구리 그리고 다른 동물들의 먹이가 됩니다.

종이 표본을 만들기 위해서는

뒷면에 있는 순서대로 여러분만의 동물 표본 을 만들어 보십시오. 그러나 잠깐! 습지대에 는 온갖 종류의 생물이 있습니다! 각각의 종 마다 그들만의 살아가는 이야기가 있다는 점 을 잊지 마십시오. 다른 야생생물 표본에 관 해서 알기원하시면 우리의 웹사이트

education.ducks.ca 를 방문하십시오. 그런다음 여러분의 가족과 친구들과 함께 더 많은 생 물를 찾아내 보시고 여러분 자신만의 습지대 도 만들어 보십시오.



Darts: (shape your model)

GLUE

1. Cut along lines.

2. Bring points O together and glue

To make your paper model

You will need: scissors, glue for paper (glue sticks work well)

SD

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1.Cut out all pieces.



2.Cut darts (nose, rump and sides).



в

С

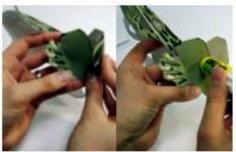
Fold along both sides of back from eyes to top of the rump dart.



4. Glue nose, rump and side darts







Fold top part of leg piece "C" over leg piece "A" and glue.



Fold back legs (see A) up towards body along line.



 Fold leg piece "D" and front legs to position frog.

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