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 Professor 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…
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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.
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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.
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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.
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Origami Fox Step 7: Fold the tip of the tail

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

1. Start with a rectangular sheet of paper, with the side up. Fold it in half, and open it out again.
2. Fold both top corners to the opposite edge of the paper. Your creases should look like this.
3. Where the diagonal creases meet in the middle, fold the paper back and forth. This will create the remainder of the work here.
4. Hold the paper at the sides, bring the points down to the center line, then flatten. The creases should do most of the work here.
5. Fold the uppermost triangle up to the top point.
6. Fold sides in to the center line.
7. Fold bottom crease upward so the end sits in the center of the top diamond.
8. Now fold the same part downward in half.
9. Turn over and your frog is finished! To make him jump, press down on his back as shown.
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 wetlands and help protect them!
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wetlands - you will love them! kakwe pisiskîhta ihkatawâwa wâsakâm, ekota ohci ka-mâci-sâkihtân.

Create your own ihkatawâwa kiskinohamâsôwin!

Ducks Unlimited Canada Conserving Canada’s Wetlands

Active by nature.

education.ducks.ca (English only • ayâkisimowin pôko.)

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 osíhtâwak oskwatima ekwa misiwâskahikana sîpînk ehapacihtâcik asiskiy ekwa mîtosa kita meshahkik oskwatim ahpô wîkiwâwa. kapîyi mâna atoskewak. eyako mâna ohci iyiniwak 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.

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To make your paper model

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

Darts: (shape your model)

1. Cut along lines.

2. Bring points together and glue.

1. Cut out all pieces.

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

3. Glue back together using tabs.

4. Overlap and glue chin tabs.

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

6. Cut teeth tab along line and glue in place.
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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 일생동안 어린 시기의 모습이 바뀌는 마법의 신비로운 동화의 주인공입니다. 개구리는 바위나 석기의 물에 불은 끝에 생기는 한 pelos porque의 형태로 생명이 시작됩니다. 알은 물속에서 공기로 부화하며 다음에는 다리가 자라기 시작하여 마침내 땅 위로 뛰어 움직일 수 있는 완전히 다른 생명체인 개구리가 됩니다.

개구리는 많은 종류가 있으며 일생동안 어떤 시기는 물에서만 지내는지라. 찐개구리는 캐나다에서 흔히 볼 수 있는 개구리중의 하나입니다. 찐개구리는 곤충, 갑각류그리고 다른 개구리를 잡아먹습니다. 그러나 개구리와 올챙이 역시 물고기, 새, 너구리 그리고 다른 동물들의 먹이가 됩니다.

종이 표본을 만들기 위해서는

뒷면에 있는 순서대로 여러분만의 동물 표본을 만들어 보십시오. 그러나 잊지마세요! 습지대에는 온갖 종류의 생명이 있습니다! 각각의 종마다 그들만의 이야기가 있다는 점을 잊지 마십시오. 다른 야생생물 표본에 관한 끝까지 입혀보세요 우리의 웹사이트를 확인해보십시오. education.ducks.ca를 방문하십시오. 그 다음 여러분의 가족과 친구들과 함께 더 많은 생명을 찾아내 보시고 여러분 자신만의 습지대도 만들어 보십시오.
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Leopard Frog
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To make your paper model

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

1. Cut out all pieces.

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

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

4. Glue nose, rump and side darts.

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

6. Fold hind leg pieces down at point where spots stop.

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

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

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