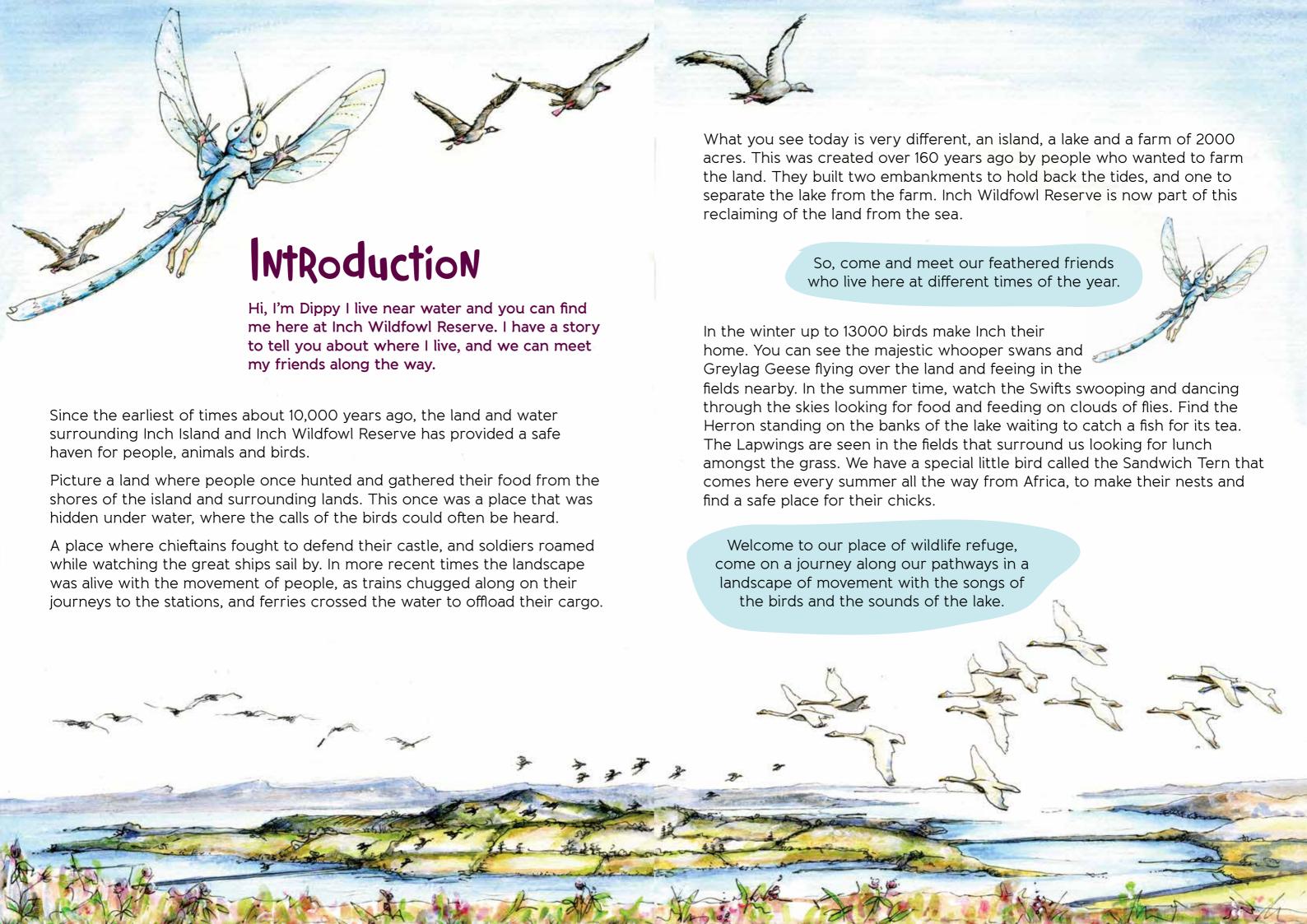
A Guide to the Birds of Inch Wildfowl Reserve



ILLustrations by Eadain Madigan



WetLands

Do you know what a "wetland" is? A "wetland" can be as small as a big If you were to walk around the Reserve here at Inch it would take you about puddle or as large as a massive lake. Hold on, there's a clue in the name 2 hours, it's over 8km in circumference! The lake is 179 hectares and the wet that a "wetland" is not just the water, but also the wet or damp "land" grassland is 95 hectares, making the whole site over 274 hectares in size, surrounding the water. A wetland wow! is where land and water meet. So a Do you think "wetlands" are really so important and wetland could be a wet corner of a field worth protecting? or a huge Wildfowl Reserve, just like TOOBANHIDE here at Inch. Can you think of other If you think for a second, all life needs water, all the plants, insects, birds examples? and animals need water to drink. Did you know that they also need it for much more than that, such as, feeding, bathing, reproducing, protection, migration, hibernation, shelter Can you think of examples? Wetlands have some of the highest levels of biodiversity in the world, the wealth of animals and plants that use them is mindblowing! MC GRATHS We are losing wetlands throughout the world and as a result our native wildlife is getting squeezed into fewer and fewer wetlands, which means that there is more competition for that space to live in. Inch Wildfowl Reserve is a We need to work very hard to get people to protect these fantastic "wetland" reserve, which special places, so there is enough space for our plants, insects, is protected by Law for its Wetland birds and animals to have somewhere safe to live now and in Habitats and also for the special birds the future. which migrate to and breed here. Its habitats are managed to make them even more attractive for all the plants, insects, birds and animals that live here or visit it.



Now that we have met all the birds at Inch Wildfowl Reserve, take out some binoculars and see if you can spot them! Look at what they birds are doing – not

just how they look. How are they behaving? How do they fly or swim? How do they walk or dive?

Birds don't like loud noises so try and stay as quiet as possible. The further away you are from them, the better. This helps you to see how they act normally when no humans are around.

Birds are very sensitive to movement because they have lots of predators such as hawks and cats.

Because of this, trying to view them from a bird hide or from behind some plants can be helpful.





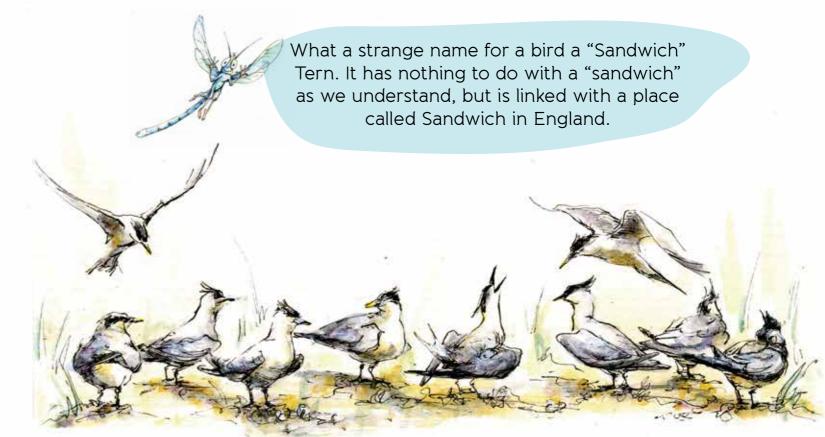
Adjust your binoculars to your own eyesight. Binoculars can be adjusted at both the eyepiece end and by a small wheel on the top of them. This allows them to be focused so you can see clearly. Binoculars are an important part of a birder's kit.

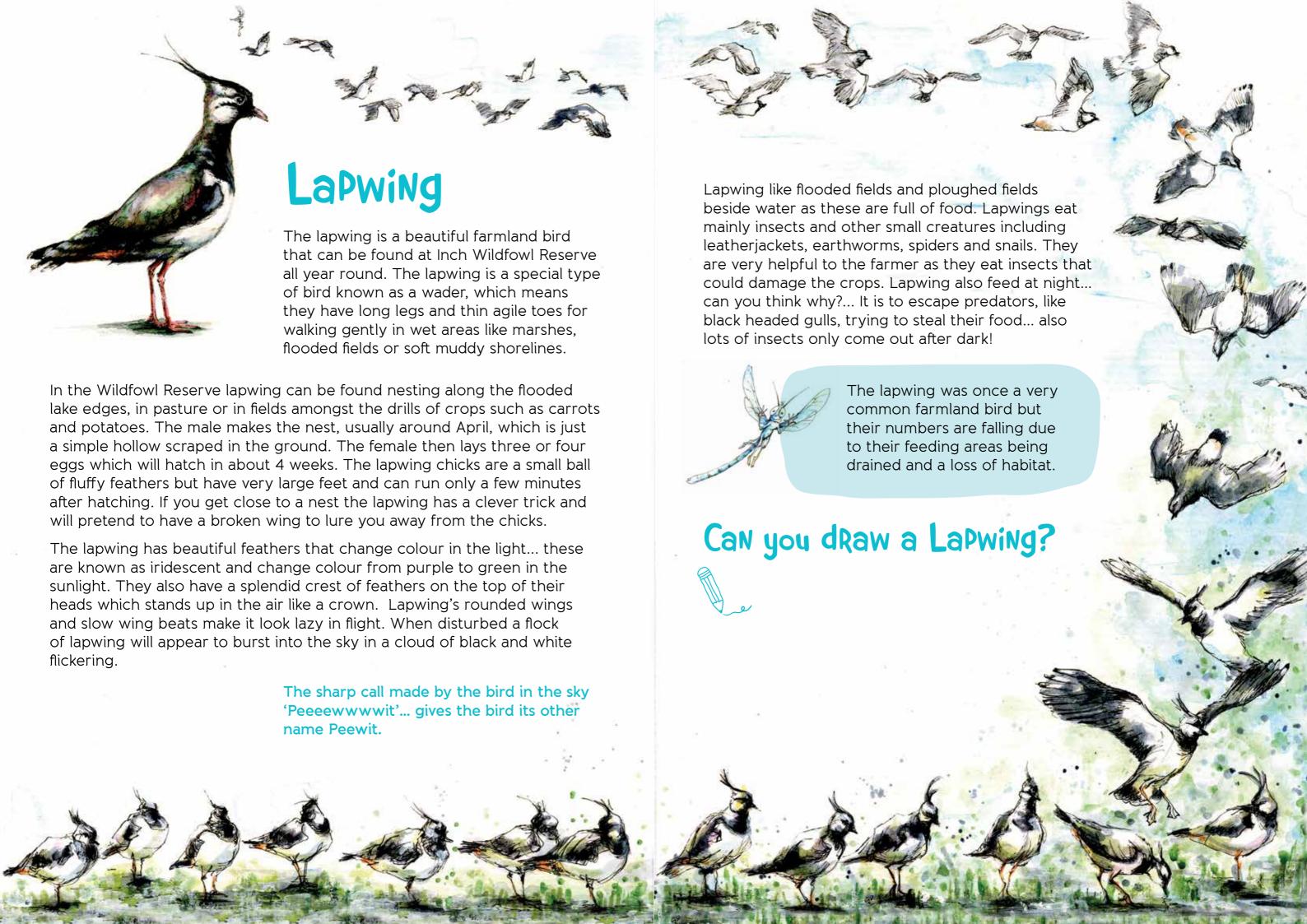


One of most important summer visitors to Inch is the strangely named Sandwich Tern. It is sometimes called the "sea swallow" because of its swallow like shape when flying.

Sandwich Terns are a globally threatened species and as a result they are one of the most welcomed visitors to Inch. They arrive here in April each year and leave again in September or October depending on the weather, to begin their long migration back to western Africa. This is where they spend the winter months before coming back to us next spring.

We have over 400 pairs of Sandwich Terns breeding on a small island in the lake on top of an artificial platform made from sand, stones and wooden boards. The local people call this small island "Paddy's Bed", although noone seems to know who "Paddy" was! The Sandwich Terns lay one or two eggs each year and feed their young on sand eels which they catch in the sheltered and shallow waters of Lough Swilly.







A Day in the Life of a Ranger

Hi I'm the Ranger here at Inch Wildfowl Reserve. One of our most important jobs at Inch is to protect the breeding Sandwich Terns.

All species of terns are incredibly faithful and loyal to the places they go. They nest in the exact same piece of sand from year to year! This is great from one point, that we know where they will be. However, they tend to nest on sand close to the water's edge and this is a real threat when water

levels rise and flood the nest. We have raised the level of sand by creating a platform about half a metre above the average water level.

Every June we go onto the island to count the number of eggs and nests, then after a few weeks we go back to "ring" the chicks! We have to pick a sunny day so that the chicks don't get cold and we can only stay for a short time on the islet.



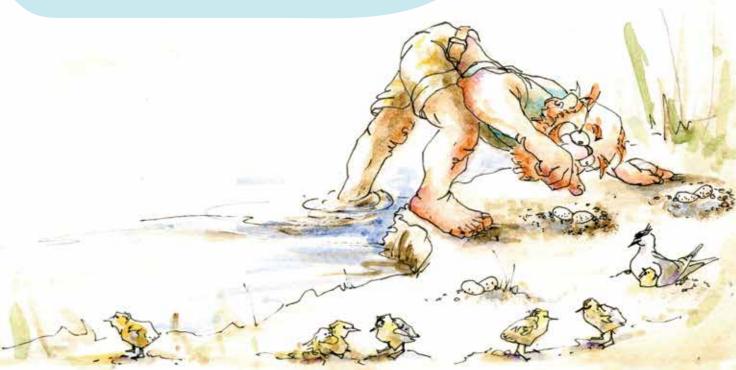
Here at Inch we have been marking the birds with small metal rings for over 30 years with the help of volunteers. The rings are put on their legs when they are a week or two old. These rings have an individual number which is unique to each

bird. These numbers can give us a huge amount of information when they are rediscovered either by sight or when birds are caught. We have had reports of birds being seen and found in places like Freetown in Sierra Leone, West Africa and on the Cape of Good Hope in South Africa!

Another very important task for the Ranger at Inch is to make sure that all of the visitors have a safe enjoyable and most importantly an educational visit to the Reserve. This involves making sure that the paths, car parks and bird hides are clean and well maintained, we do this with the help of our caretaker and other volunteers who all help to make this place such a pleasant place to visit. Sometimes people do things that they shouldn't, they can disturb the birds, drop litter, let dogs of their leads, so it's very important that we educate and change people's habits so that Inch Wildfowl Reserve continues to be such a special place to visit, thank you for your help!









WhooPer Swan

There are only seven species of swan in the world! A group of swans is called a 'bevy' but when they are flying, the group can be known as a 'wedge'. This is because of the shape they create which is almost like a slice of pizza or a wedge of cheese!

The Whooper Swan (pronounced Hoo-per) has a diet of water plants and gets an orangey, colour-stained neck from dipping its head underwater to eat them. It has also been found to graze grasses in fields as well as eat leftover potatoes on ploughed land.

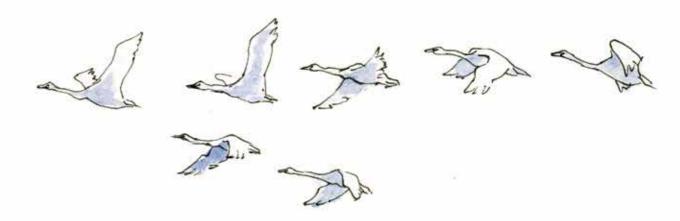
Whooper Swans seen at Inch breed in Iceland during the summer months. They use the banks of shallow water areas, close to the sea, to make their nests.

Whoopers visit Ireland during the wintertime, arriving in October and leaving again to fly back to Iceland in April. Why do you think they migrate?

Birds do not have teeth but swans have jagged edges along their beaks to help them grasp onto their food and pull it out of the ground!



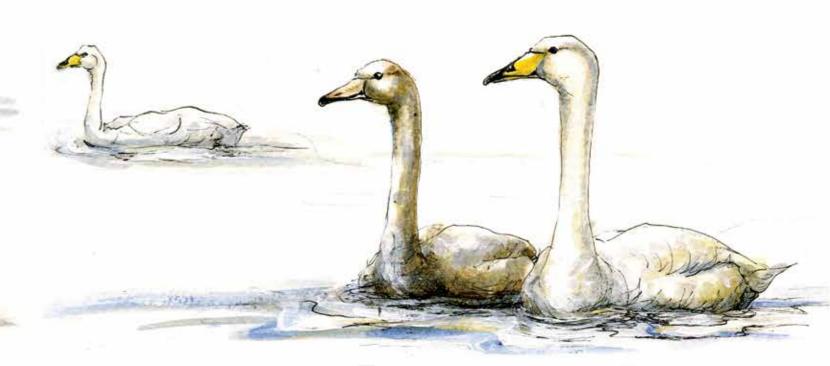
The plumage or feathers of the adult and young swans are different. Young swans, called cygnets, have grey feathers and an orange & black beak. As they grow into adults, these feathers change. The adults have brilliant white feathers and a black & yellow beak. The yellow part of the beak is triangular in shape and extends beyond its nostrils. They make a 'Whoop whoop' call which sounds like a honking bark and gives them their name!

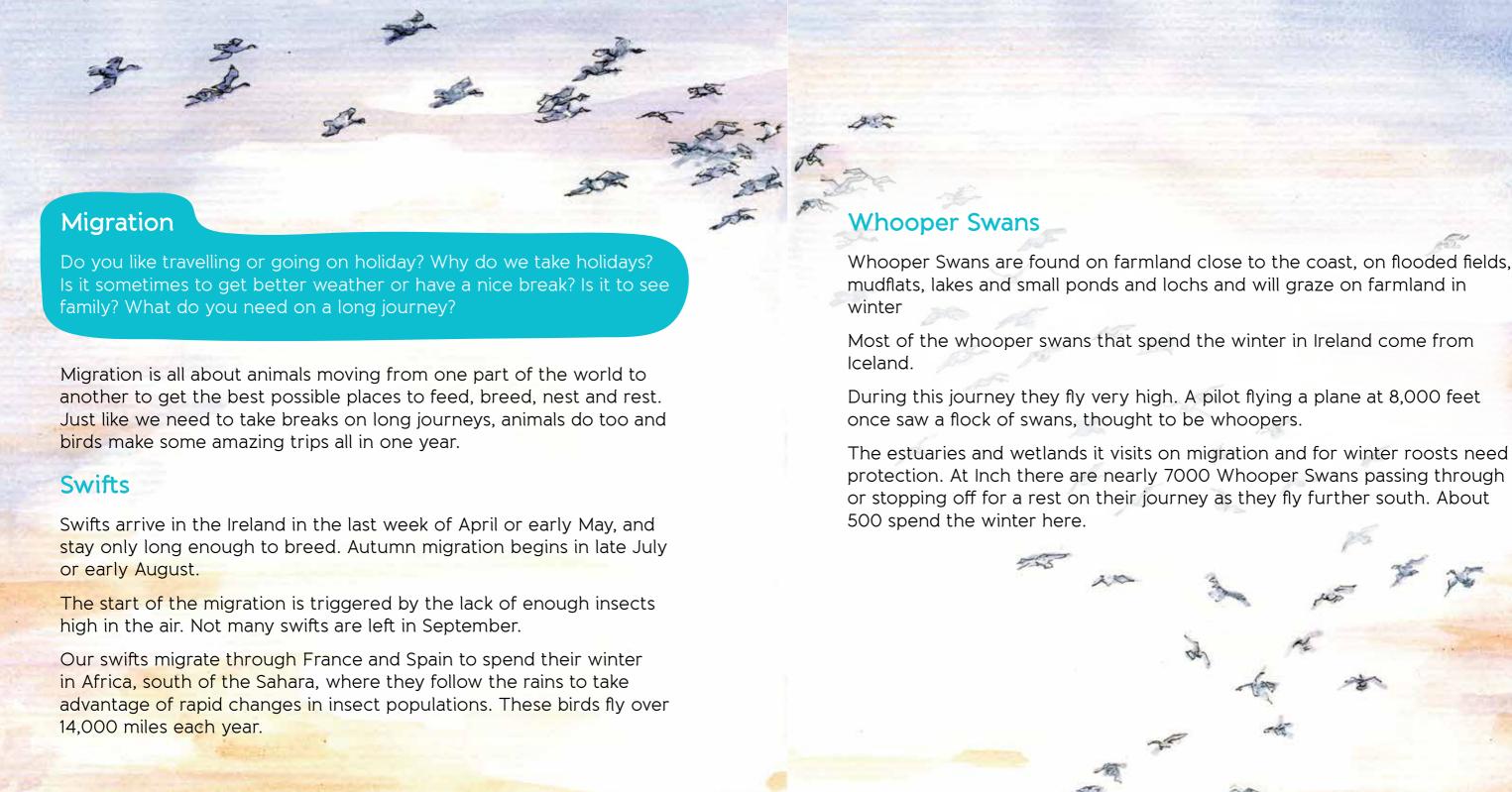


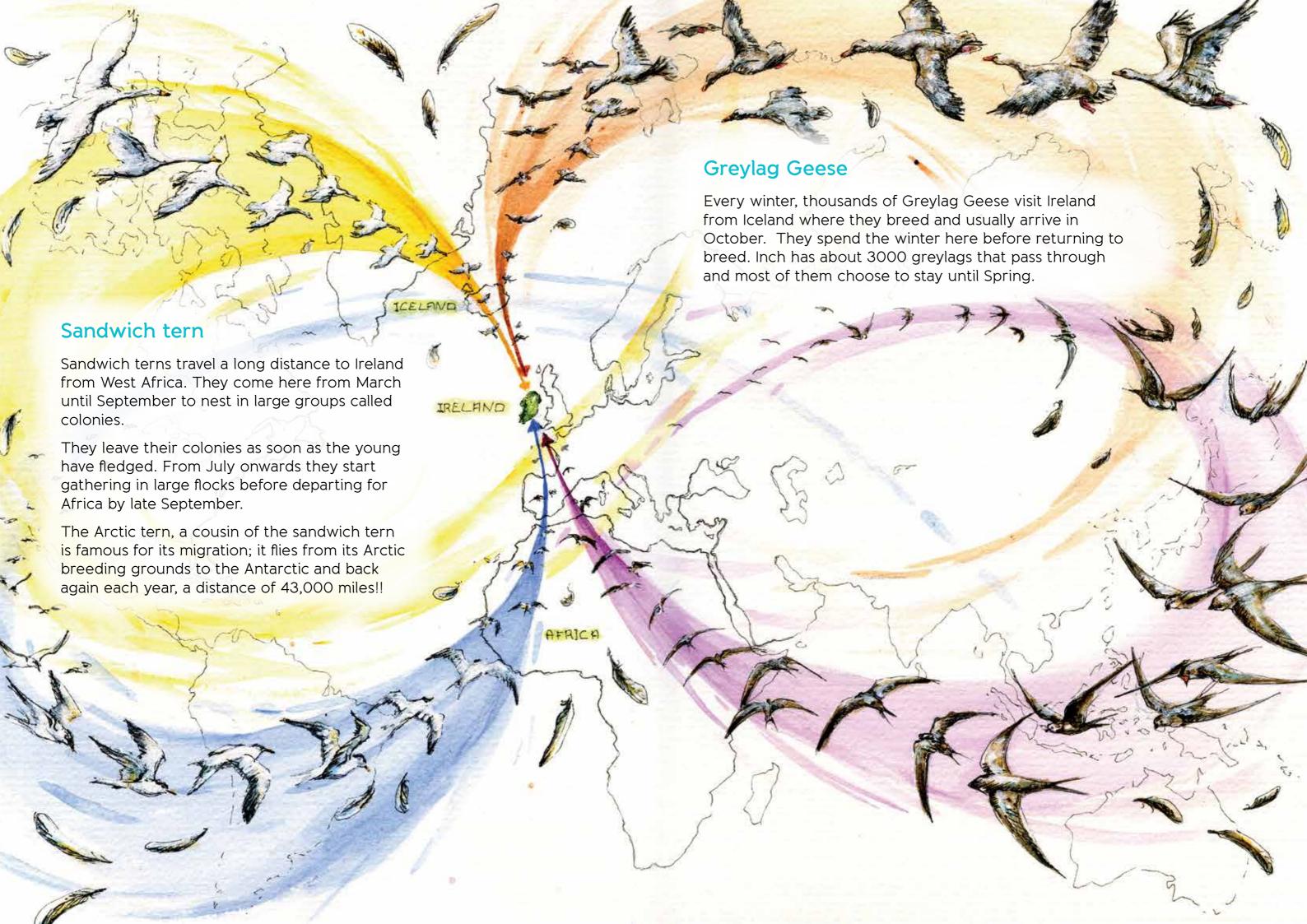
A clever trick that baby swans use to help them hatch is an 'egg tooth'. When the swan inside the egg is ready to hatch, it forms a small tooth-like structure on the top of its beak. This gadget helps the tiny swan to tap the egg from the inside until the shell cracks open and it can emerge. The egg tooth then falls off after a couple of days when it is no longer needed.

Can you draw a Swan?



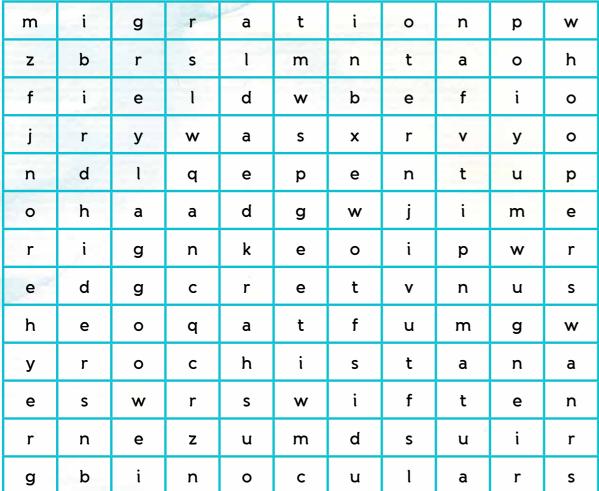


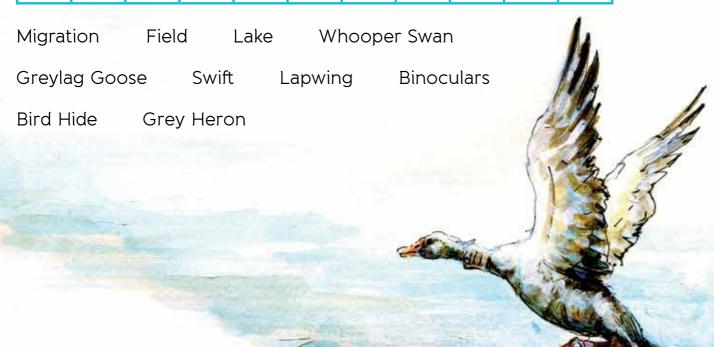






Wordsearch





Bird Features

Birds have different types of feet depending on what they do. Wading birds like herons have long toes spaced widely apart to stop them from sinking into the mud. Terns, swans and geese, on the other hand, have webbing in between their toes. This helps them to paddle and swim. The flippers that divers use to swim underwater are imitations of birds' feet!





Swimming Bird



We can also tell a lot about what a bird eats from the type of bill it has. 'Bill' is another word for beak. Terns have short, sharp beaks for quickly snapping up fish when they dive into the water. Herons have longer, sharp beaks for stabbing into the water as they stand at the edge. They also have extremely good eyesight and stab at the water the second they see the sparkle of a fish's scales! Swans and Geese have flatter, wider, morerounded beaks for pulling plants up out of the ground.



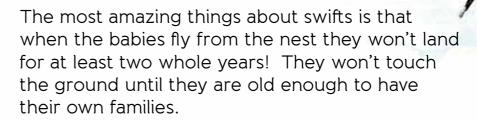


Swift

Swifts are amazing birds! They are amongst the fastest birds in the whole world and they hardly ever land! They sleep while flying, they catch all their food while flying and they eat when they are flying! They even find everything they need for their nests in the air while flying!

The only time they land is when they are having families. They like to make nests under the roofs of old houses. They find everything for their nest in the air like feathers and old bits of cobwebs. Then all those pieces are glued together with their sticky saliva. The saliva is the little bit of water that's always in your mouth. What a cosy nest!

Then they have to work very hard to catch enough bugs to feed their babies! Those little swift chicks are tiny when they hatch; about half the size of your thumb! After only a few weeks they are as long as your hand. When these chicks start to fly they have to learn to catch bugs on their own very quickly.



Swifts fly very big distances. A swift recently flew from Britain across Europe and all over Africa. It spent the winter flying from a country called Guinea on one side of Africa to another country called Congo.



Can you find these countries on the map? Then the same swift in the springtime flew from Congo to Britain in five days. That's over 1,000km per day, twice the length of Ireland!

Swifts only come here for a few weeks, from May to July. They love the Inch area because it has loads of tasty flies and bugs for them to eat in the summer. When they arrive in Ireland you'll hear them before you see them; they have a loud screeching sound. The best time to see them is early or late in the day. The rest of the time they are very high in the sky bug hunting. I hope they don't eat me!







Greylag Goose

This is Gary the Greylag Goose. He's a resident of Iceland but comes to visit us here in Ireland for the winter to escape the cold.

These birds feed mainly on grass, leaves and stems and can often be seen grazing alongside cattle and sheep at Inch Wildfowl Reserve. They are herbivores which means they only eat plants.

Greylag Geese build their nests alongside lakes, keeping them well hidden behind reeds for protection from predators. Can you think of any animal that might hunt a goose or eat its eggs? Hint: There are lots of animals around Inch such as Humans, cats, Mink and our native Red Fox.

These guys (and girls) have grey-brown and white feathers. The breast of the goose is paler in colour than the back with dull pink feet and an orange beak. Their call is described as 'honking', much like a domestic goose.

We usually see Greylags in Ireland between October and April each year. Like the Whooper Swan, they also return to Iceland once the winter has ended.

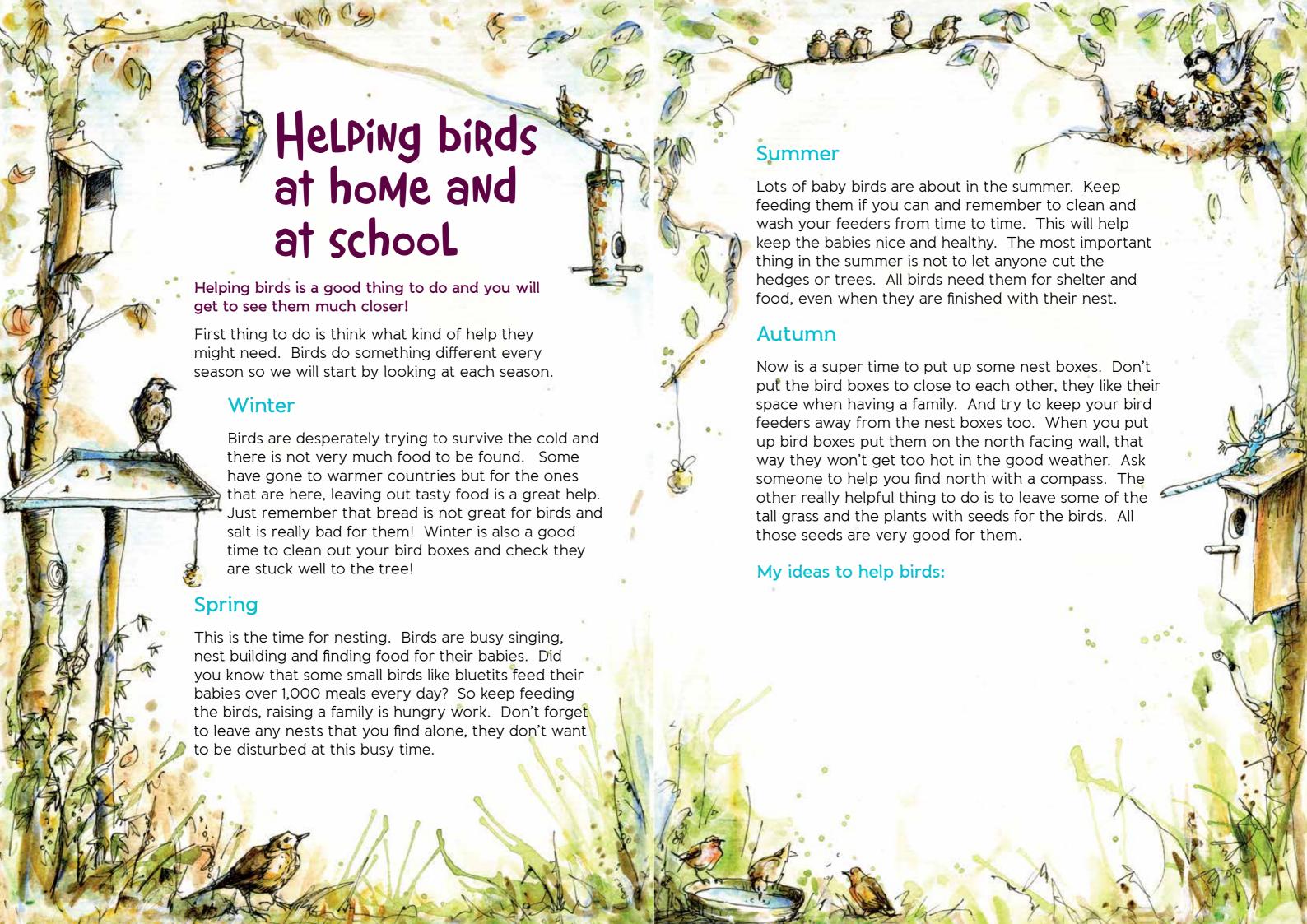
Unlike many other species of wetland birds, the male goose known as the gander stays with the family. Young geese are called goslings. The family will travel together when migrating back to Iceland and the gander will only chase away the young goslings when both him and the female need to find a new home to lay their next clutch of eggs.

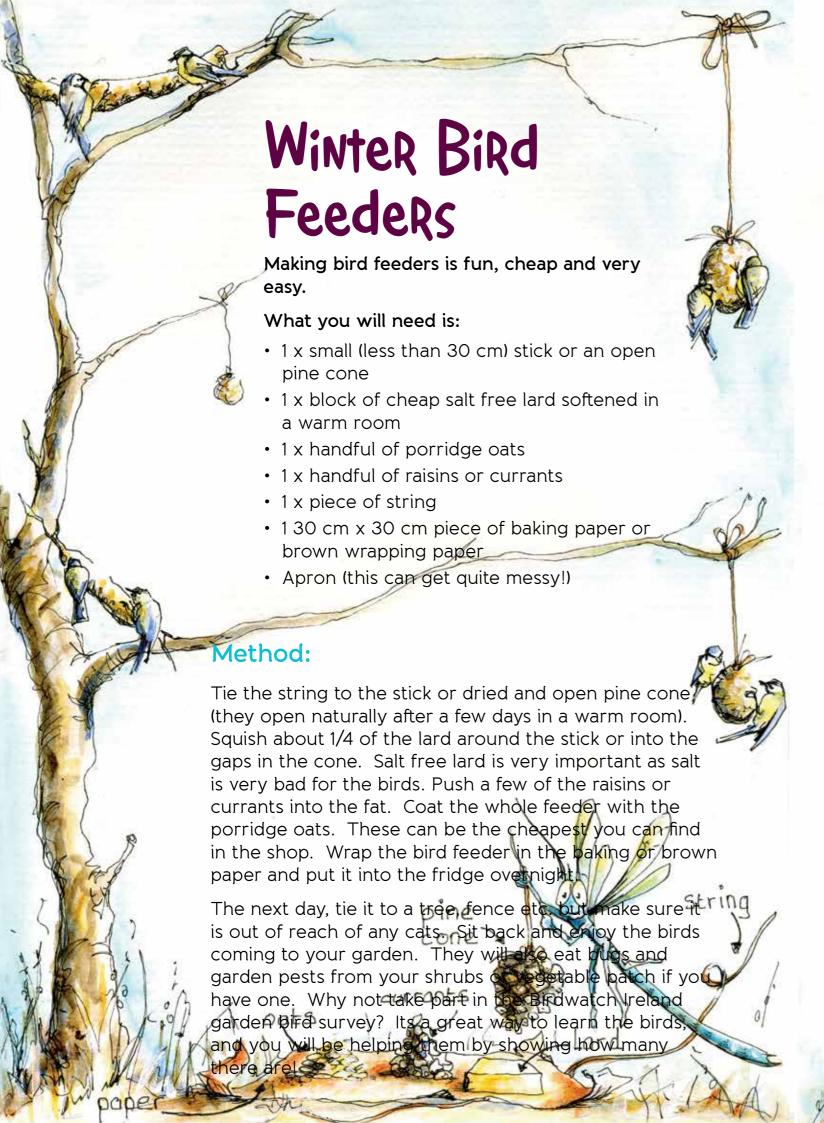


These beautiful birds are one of the species that get collars to allow people to identify them. Have a look at AAJ – one of our birds collared at Inch in 2012! He has travelled from Lough Swilly here in Ireland and been seen in 2012 and 2013 in Dumfries in Scotland with his family.

Write a short poem on what you've learned about the Greylag:







What have you seen?

All the best birders keep records of the species that they've

spotted. There are even international competitions to see who can spot the most species within a given time. Recording your birdwatching adventures can help contribute to scientific studies that look at the distribution of birds around the world.

How Many of these birds have you seen?

Greylag Goose	Sandwich Tern	
Whooper Swan	Lapwing	
Cormorant	Heron	
Swift	Black Headed Gull	

Place: Date: Weather:

You can record your findings online at: www.birdwatchireland.com www.biodiversity.com

Draw your own bird



Farming and Wildlife

Inch Wildfowl Reserve is a special protected place for birds and is surrounded by a working farm. This farm contains a mixture of crops, such as potatoes and carrots, barley and wheat, grasslands and dairy cows that produce milk.



The National Parks and Wildlife Service work with the farmers to make sure there is enough grass to eat for the Geese and Swans that come here to feed every winter. Farmers also take great care not to disturb the nesting birds during the spring and summer.

Visitors are also asked to keep away from these areas during this time. The cow dung left behind by the cattle is also of use as it encourages beetles, clegs and other insects which recycle the dung back into the soil. These insects provide food for the lapwing and their chicks.

The Grianan Farm is famous in Ireland, because at one time it was the biggest farm in the country with some of the largest fields anywhere in Ireland (one field is bigger than the average farm in Ireland). You already know that its special also for the birds that it attracts, why do you think the birds like it so much? Here are a couple of things;

- They feel safe in the big fields, because they can see around them
- They like to feed on the grass and the leftover crops like potatoes
- It's very close to the Reserve were they can fly back to if they get scared or disturbed
- The farm is organic which means there is less machinery around and less chemicals used on the fields



Farming and land management are used to help the resident birds and animals here at Inch Wildfowl Reserve. During the late spring and summer the lake edges are grazed by cattle to keep the grass and other plants at the correct height for lapwing and other ground nesting birds. The amount of cattle is kept at a low enough level to maintain the grasslands, but also to allow the birds to nest in without being disturbed. This is a traditional method of grazing that finds a balance between summer grazing and conservation!

Inch Wildfowl Reserve needs us all to work together to protect its past, present and future. You can help by spreading the story of this very special landscape and telling your family and friends all about it.



