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Worksheet

rubble wall On another sheet draw a simple map to show the way from your school to this place. More than 40 houses 2 Do you know what kind of tree it is? If you don't, give it a name! fields Yes 21 to 40 With your tablet take a photo of your special tree friend. What's the name of this street (or nearest street)? What environments can I see around my tree? Let us find a group of trees in our neighbourhood. garden ž Are there any other living things on my tree? Choose one tree and make it your special friend. How many trees are there in this area? Draw the shape of your tree in the box. What's the name of this town/village? taller than it is wide. leaning to the right. as wide as it is tall. wider than it is tall. Time leaning to the left. 11 to 20 Yes A. My tree's neighbourhood Knowing my tree street I know my tree is alive because vertical. Is my tree symmetrical? Less than 10 town square B. My tree My tree is My name Date / 4 2 9 α က α က 4 ∞

2

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Worksheet Trees are Cool 1

Estimate and measure ပ

Find the circumference of your tree's trunk. Use hand spans on a ruler (see the picture). What's your hand span? to estimate the answer. Open your hand flat

CH Answer A. My hand span is

hand span

How many times does your hand span go round the tree trunk?

 α

. This is your estimate. times. Answer B. My hand span goes round the trunk Now multiply answers A x B and you get က

Now measure the circumference with a tape measure. The answer is 4

CII

S

å Yes Was the answer close to your estimate?

How tall is your tree? Use your clinometer to estimate the height of your tree. Don't forget to add your own height to the answer. 2

ta|| cm My tree is about

clinometer

D. Collecting and sorting

some of these things. Don't pick sharp things that can plastic or paper material? Wear your gloves and collect hurt you. Count the things you collected and write the Look around your tree. Can you find any organic, mineral, totals in the table here.

3

back on the ground, but keep any plastic and paper litter Before you leave, put any organic and mineral material and dispose of it in recycling bins. $^{\circ}$

Back at school make a block graph of the materials. က

caps, bottles, bags, etc. leaves, twigs, bark, etc. stones, cement, etc. bags, boxes, etc. organic mineral plastic paper

Calculating ш

Stand at a point and count the number of cars you see in one minute.

cars

Answer

Now read

· A car produces about 4000kg of CO₂ every year. A tree absorbs about 20kg of CO₂ every year.

these facts

 α

in that minute?

trees!

We would need

Can you calculate how many trees it would take to clean the air pollution from the cars you saw

trees are our friends! Now you know why





Trees are Cool 2 Sparrow Roost Map



The map shows many of these places. Do you live near a sparrow roost?

Roosts!

We have many sparrow roosts in the Maltese Islands. It's where sparrows meet up to sleep in big groups.



Trees are Cool 2 Sparrow Roost Map

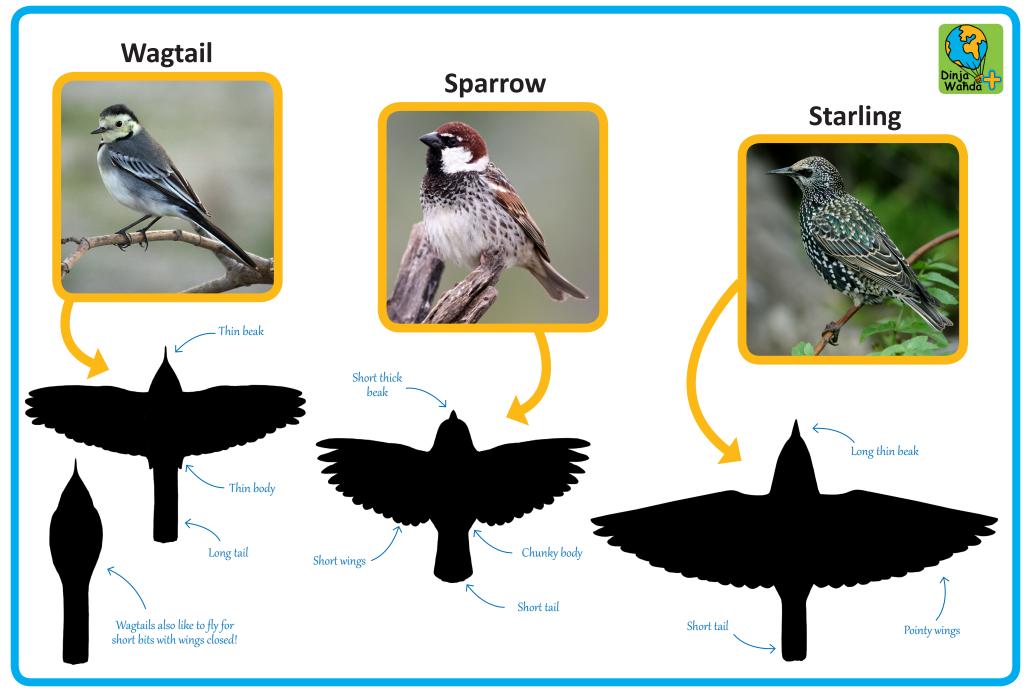


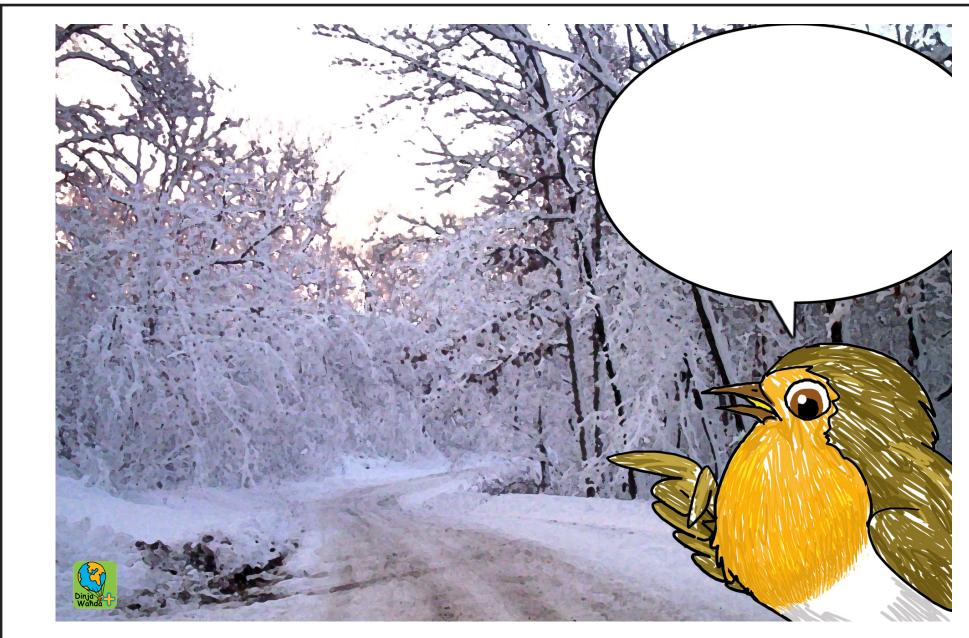
My Sparrow Roost Count Sheet

dare	place		
time	sparrows I counted	1019	_
4.30pm to 4.35pm			
4.35pm to 4.40pm			
4.40pm to 4.45pm			
4.45pm to 4.50pm			
4.50pm to 4.55pm			
4.55pm to 5.00pm			
5.00pm to 5.05pm			
5.05pm to 5.10pm			
5.10pm to 5.15pm			
5.15pm to 5.20pm			
5.20pm to 5.25pm			
5.25pm to 5.30pm			
bing BirdLife	grand total	†a] →	
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Trees are Cool 2 Roosting Birds

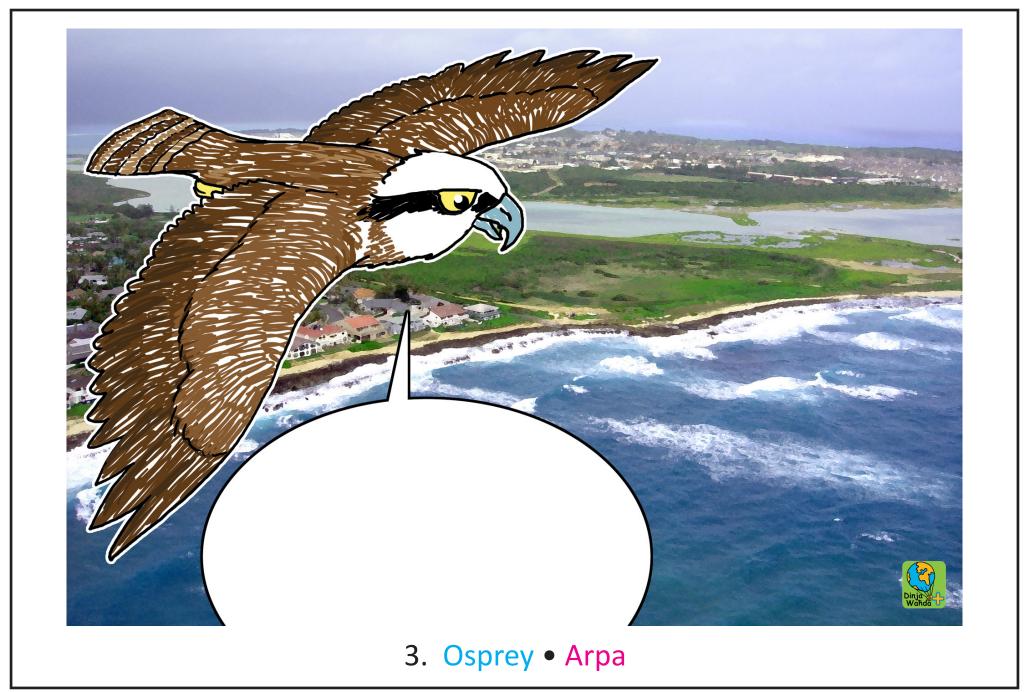




1. Robin • Pitirross

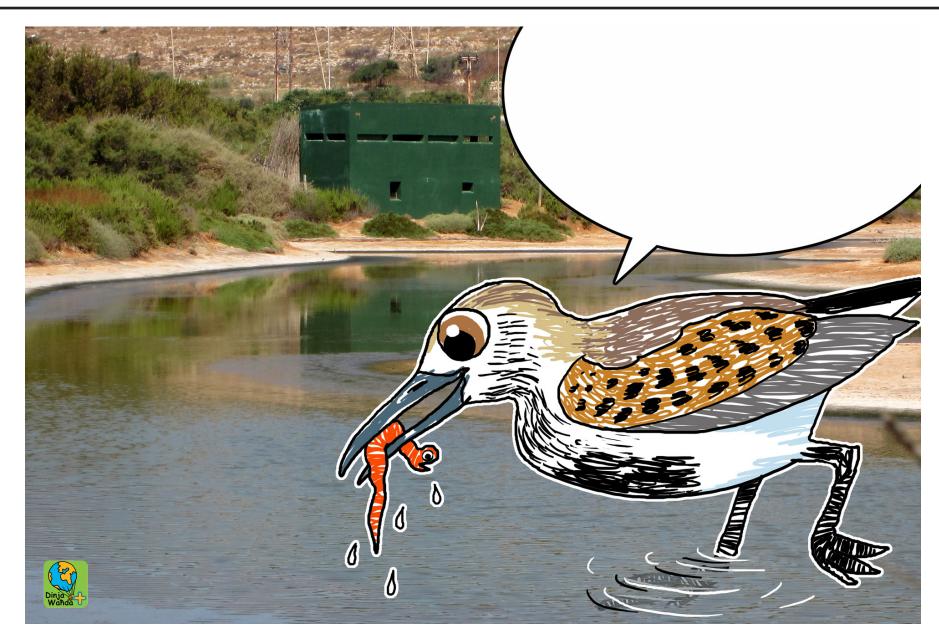


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4. Turtle Dove • Gamiema



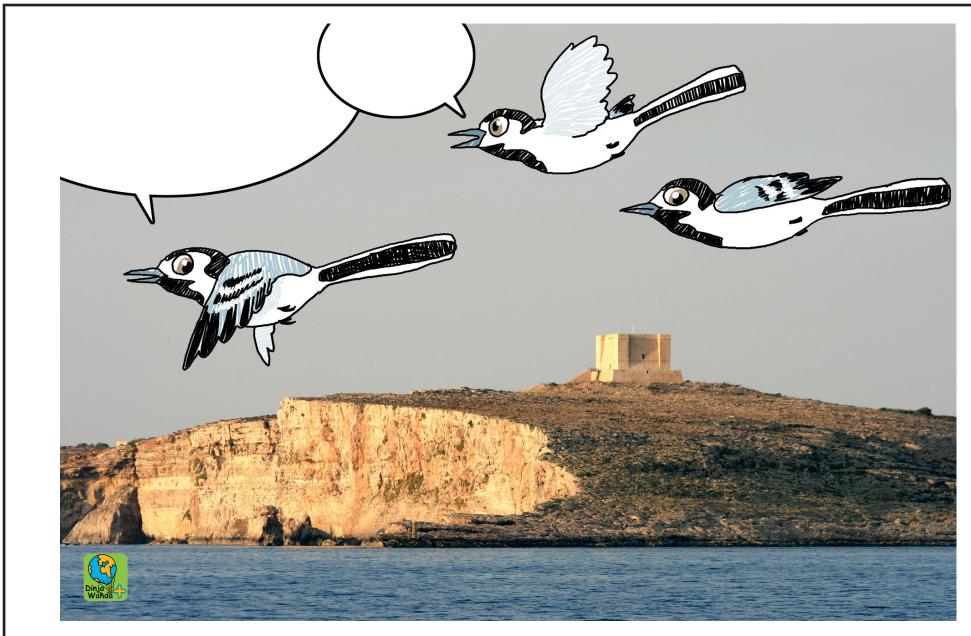
5. Dunlin • Pispisella



6. Black Redstart • Fjamma Sewda



7. Stonechat • Buċaqq tax-Xitwa



8. White Wagtail • Zakak Abjad

On the Move









What are they saying? Suggestions

Picture 1

This robin hatched in Finland and spent a great summer growing up and feeding on mosquitoes, caterpillars and other insects and grubs. But he is concerned that he won't survive if he stays in the same place for the winter. That's because the weather up north becomes terribly cold, there is snow everywhere and all the insects are either dead or hidden away in holes and burrows. The robin's only chance to stay alive is to fly away south where the winters are not so cold.

What he could be saying, therefore, is something like:

"If I stay here for the winter I will die!"

"My forest is nice and warm in summer but it's very cold in winter."

"I cannot find food in this snow. That's why I fly south in autumn."

"Birds migrate in autumn because winter is too cold for them here."

Picture 2

This white wagtail spent his summer up in Lithuania. But the days are starting to get shorter, and he is noticing that the leaves are turning yellow and falling from the trees. It means that it is autumn and that winter will soon arrive. He is checking his watch too, to show that it's time to fly away and go find a nice land in the Mediterranean where to spend the winter. White wagtails arrive in Malta in October and November and thousands spend the winter here.

What he could be saying, therefore, is something like:

"Uh-oh, autumn is here! Time to go!"

"It is time to fly south!"

"The leaves are falling. I must fly south before it gets too cold."

Picture 3

This osprey spent spring and summer raising a family in a forest by a lake in Scotland. But she cannot stay there in winter because the lakes will freeze and she won't be able to catch the fish that are the speciality of this species. So she flies south to spend winter in Africa. It is a very long journey, and one of her biggest problems is the sea, because she cannot land on it if she gets tired. She has to cross it in one go. She looks concerned as she leaves the shores of Sicily - there are 100km of sea before she reaches Malta. Will she be strong enough?

What she could be saying, therefore, is something like:

"Am I strong enough to fly across this sea?"

"Will I reach Malta or will I get tired and drown?"

"I hope I don't meet a storm while crossing the sea."

"Wow, what a long journey! And I can't stop on the way."

Picture 4

This turtle dove hatched and grew up in Germany, and is now on migration. She has just crossed the sea from Sicily and has reached Malta. In the picture, she is flying over II-Prajjet (Anchor Bay, Popeye Village). She would love to land in some nice tree and have a good rest. But will hunters try to kill her? If she stays alive she will maybe spend a night resting in Malta. But the next day she will continue her migration, cross the sea to Libya, cross the Sahara Desert and spend the winter in Central Africa.

What she could be saying, therefore, is something like:

"Ah Malta! I hope I find a nice tree somewhere to sleep and rest."

"I am so tired. This looks like a nice place to rest."

"I hope hunters do not shoot me down. I need to rest after all that sea."



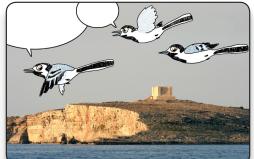
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On the Move









What are they saying? Suggestions

Picture 5

This dunlin spent her summer raising a family of chicks on the northern shores of Russia. There was a lot of food up there to feed her family, but she did not want to stay for the freezing winter. So when autumn came she and her grown chicks migrated south to the Mediterranean region. She stopped at Ghadira nature reserve (notice the birdwatching hide in the background) and decided to spend the winter there. In that little lake she can find all the food she wants, such as worms and other minibeasts (invertebrates).

What she could be saying, therefore, is something like:

"Yum yum, after that long journey, this food tastes delicious."

"This lake at Ghadira is like a restaurant for me."

"I like this place, I think I will spend all winter here."



Picture 6

This black redstart from Belgium is spending his winter in Malta. It's much less cold here than up there near the North Sea, the water is not frozen, there is no snow, and he can find food to stay alive. Also, some people and some schools have the nice habit of putting up bird tables and providing even more food for the hungry birds. This bird has found a garden with a nice bird table full of delicious food. Thanks to this regular supply, he will not need to fly around too much, and can stay all winter near this garden, and be enjoyed by everyone.

What he could be saying, therefore, is something like:

"I really love bird tables. There is so much good food for me here."

"Yummy, it's cake again! My favourite winter snack!"

"Bird tables help us birds to stay alive and strong in winter."

"Thank you for putting out food for me this winter!"

Picture 7

This little stonechat from Bulgaria has stayed all winter in the open Maltese countryside, which he loves so much. He has spent five whole months here, catching grasshoppers and slugs and other minibeasts (invertebrates). But it is now March and winter is over. The rains have stopped and the days are becoming a bit hot. This bird cannot live in a hot climate so he must soon leave and go back home, before it gets too hot and dry.

What he could be saying, therefore, is something like:

"I really loved spending winter here, but now it's getting too hot for me."

"Winter is almost over, it will soon be time for me to go back home."

"Phew! The sun is so hot. I cannot spend summer here."

"Malta is great for me in winter but it's too hot for me in summer."

Picture 8

These white wagtails from Poland have spent their winter in Malta. They stayed together all through winter and had a great time feeding in our green fields and meadows, and also visiting a school playground to hunt for titbits after lunchtime. Every evening they went to sleep in a nice big tree in a village square. Now winter is over and they are flying back home. As they fly past Kemmuna, they wonder if they can make it all the way without accident.

What they could be saying, therefore, is something like:

"Do you think we'll make it back home?" "I hope so."

"Are we still far from home?"
"Very far!"

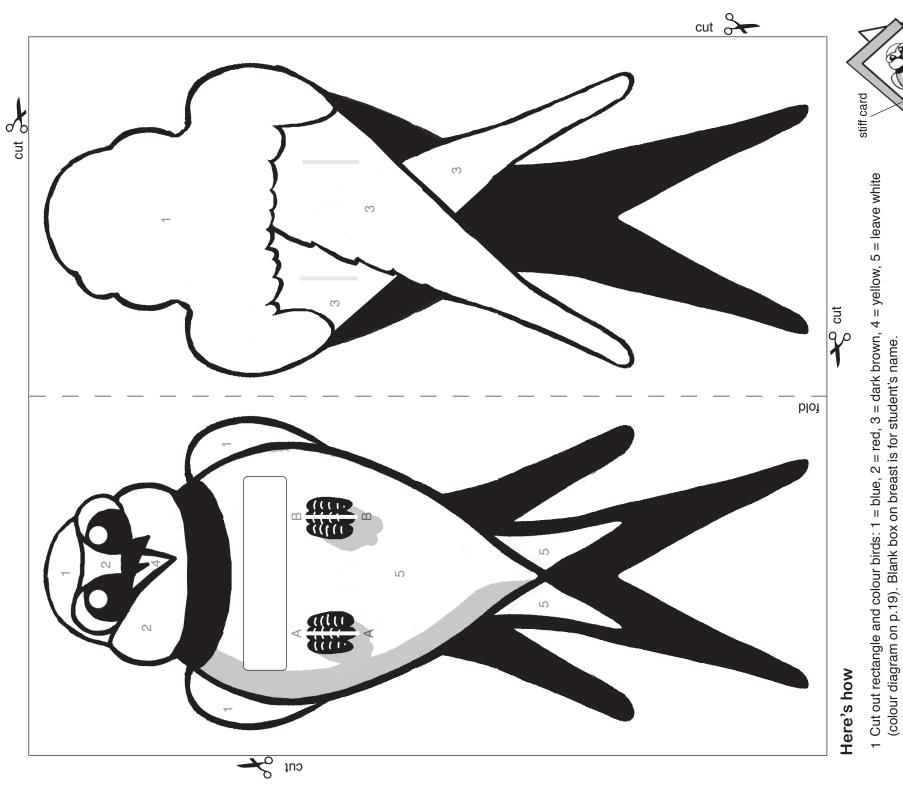
"Do you think the snow has melted back home?"

"I think so."

"We really enjoyed our stay in Malta, didn't we?"

"We sure did."

Make a Perching Swallow



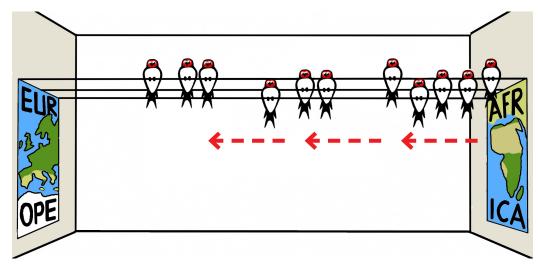
- 2 Fold down middle along dotteu mive.
 3 Insert piece of stiff card between folds (see diagram).
 4 Glue both folds to card to make one solid 'sandwich'. Leave to dry.
 5 Cut around bird outline front and back should match.
 6 Make two vertical slits at A-A and B-B and thread string through slits to 'perch' bird.
 OR forget slits and use paperclips to attach birds to string.

On the Move Out of Africa

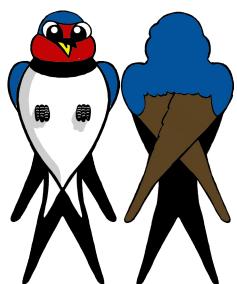
Out of Africa

This game is best played in spring, to coincide with birds flying north to their nesting ground.

- Hang a map or picture of Europe on one classroom wall and a matching picture of Africa facing it on the opposite wall (see diagram). Children share what they know about these lands. Ask what they think the classroom space in between the maps represents: it's the Mediterranean Sea!
- Thread each swallow model through lengths of string spanning the width of the classroom "between the two continents" as in the diagram, so you will have as many strings as children in the class (or pairs, or groups, up to you). Leave no slack or knots in the strings. These lines will be the birds' perches, but also their migration route. Children mark their string every 10cm with a marker that shows.
- Start by huddling all the swallows on the 'African' side, ensuring that the children understand what's going on: it's spring and birds are gathering on the African coast before they cross the sea.



- Now every day, before moving any swallows, discuss where the birds are and what ia happening. Then, every day for about a week, groups of these swallows start 'migrating' across the classroom until they reach 'Europe'. Singly, in pairs or in groups children roll dice once daily and 'migrate' their swallows along the line markers ccorrespondingly. This progress reflects the fact that not all swallows leave Africa at the same time. Continue until all swallows reach Europe.
- During the process children should realise that migrating birds get tired and hungry and need land where to rest and look for food. That's why Malta's position in the middle of the sea is so important for birds.



Here's how your perching swallow will look in colour.





What kind of habitats do you have at school?



pond



flower pots



grassy patch



wall cracks



shrubs



soil heap



planter



stone pile





twig pile



rubble wall



trees



flower patch



creeper



bare soil



bug hote!



compost bin

Here are some habitat symbols you can use



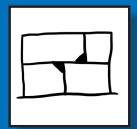
1. pond



2. flower pots



3. grassy patch



4. wall cracks



5. shrubs



6 soil heap



7. planter



8. stone pile



9. twig pile



10. rubble wall



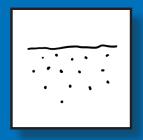
11. trees



12. flower patch



13. creeper



14. bare soil



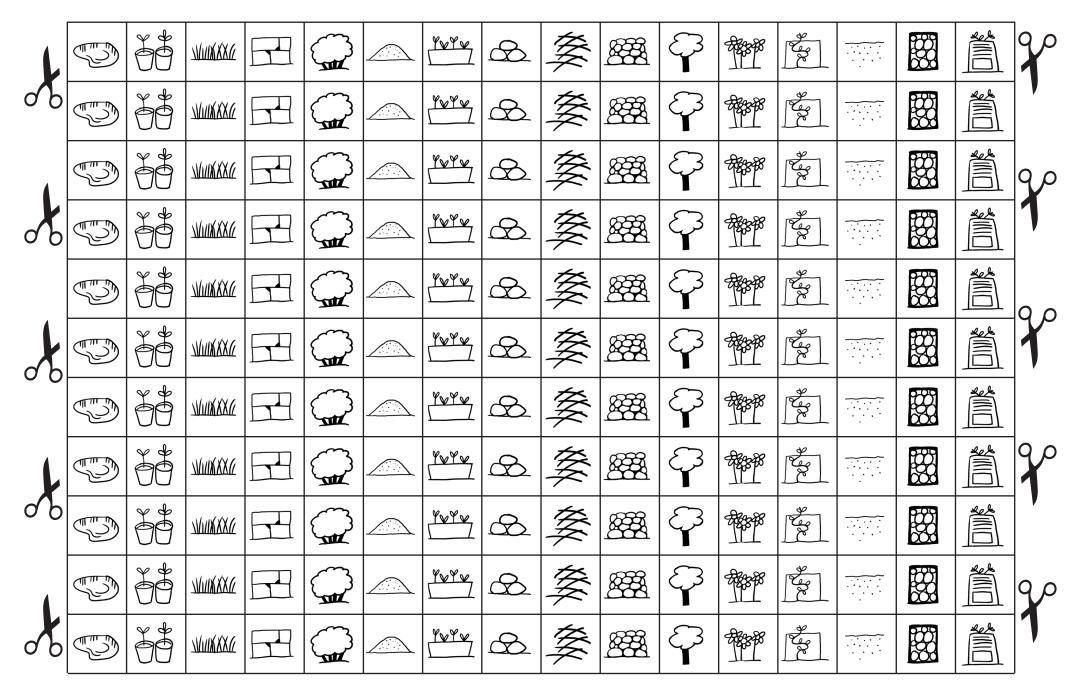
15. bug hotel

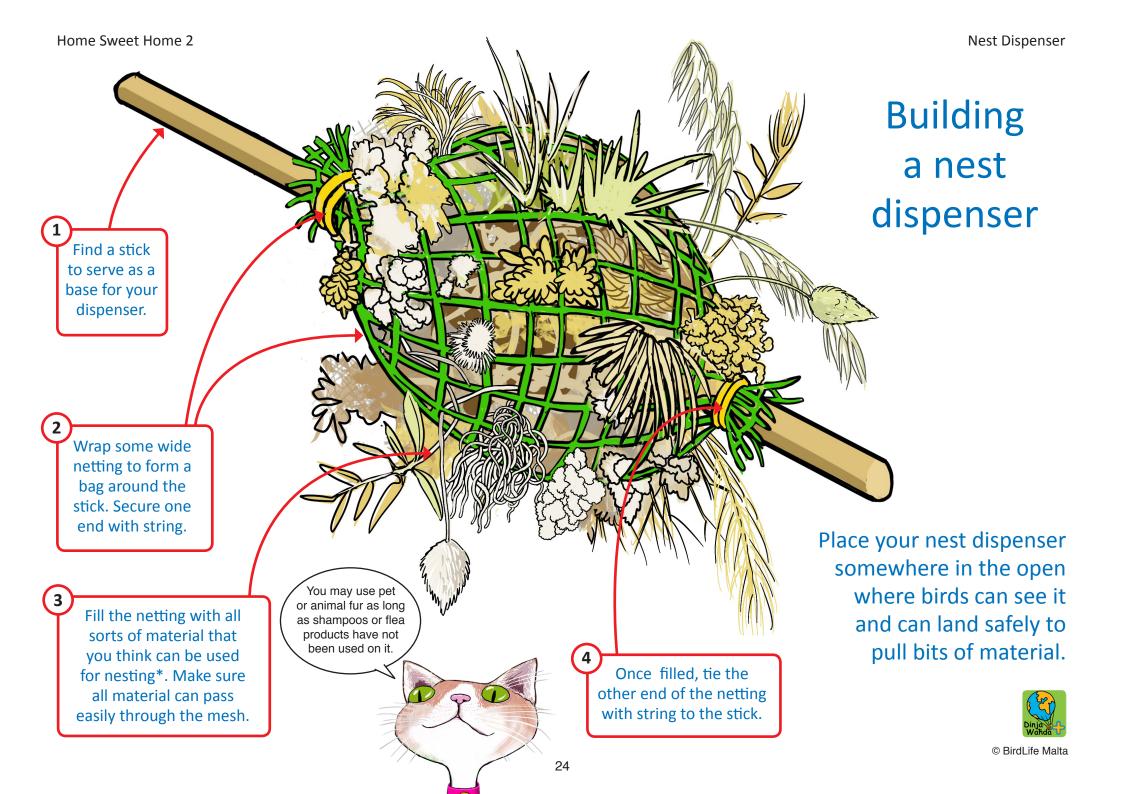


16. compost bin

But you can invent your own symbols if you like!









Rubble Facts!

Rubble walls are different from ordinary walls because they are not built with bricks or flat blocks (*kantun*). The stones are rough and of different shapes and sizes.

Rubble walls are also called dry-stone walls. This is because the builders do not use mortar (tikħil) or cement to hold the stones together.

Rubble walls are strong and stay in place because the builders fit the stones very carefully, like a jigsaw puzzle. You need lots of practice to learn to build a rubble wall.

Rubble walls are built around fields to mark where one field ends and another begins. If you have animals like sheep and goats in your field, rubble walls help keep them from walking off and getting lost.

Rubble walls are great for holding the soil in, especially when the fields are on slopy ground.

Rubble walls let rainwater through the holes between the stones so the field will not drown when it's very rainy.

Rubble walls are great for wildlife!

All those nice holes between the stones make wonderful hidey-holes for many creatures. A rubble wall is a great habitat for nature.

Geckoes, snakes, lizards and skinks sun themselves on the warm stones, and in winter they hide away in the cracks and sleep safe and dry.

Snails wedge themselves in shady cracks to hide from the sun and sleep the summer away.

Many wildflowers grow on rubble walls or at the bottom. Flowers attract more insects, like butterflies, moths, bugs, bees and wasps.

Wasps use the stones as a base on which to build their nests.

Is it fake?

Some builders make brick walls and then cover them with rough stones to look like rubble walls. But the face is flat and that gives them away. Real rubble walls don't have a flat face and they are usually less than 3 metres high.



Ants, beetles, bugs, slugs, millipedes, hedgehogs, shrews and weasels live in and around rubble walls.



Lots of **lichens** (*likeni*) and **mosses** (ħażiż) too grow on walls, sometimes even **ferns** (*felċi*) which are very rare.



Spiders build their webs and shelters in the gaps between the stones.



Birds perch on top of the walls and use them as look-out posts.





Let's look at rubble walls...

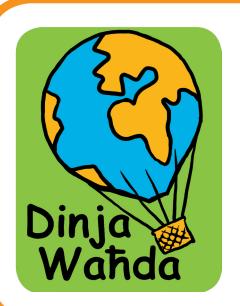


1 Where is your rubble wall?	vall?				
In a built-up place	 	Near a built-up place	f-up place	Out in t	Out in the countryside
2 What is the name of the nearest town or village?	ne nearest tow	vn or village?			
3 What is on the other si	ne other side of the wall?	<u>.</u>			
a field	a road	a f	a footpath	a garden	rocky land
4 How tall is the wall?		cm			
5 Are there plants growing in the wall?	ng in the wall'	? Yes	0 0 0		
6 Can you name any of them?	them?				
7 Are there plants growing at the bottom of the wall?	ng at the botto	om of the wall	l?	%	
8 Can you name any of them?	them?				
wall	is the home of many living things.		Can you spot any of these on the wall?	of these on th	ie wall?
gecko	lizard		skink		spider
Snail	guls			10	butterfly
beetle	bee		ant		wasp
Jichen	moss		wasp's nest	t ₂	spider web
name				date	

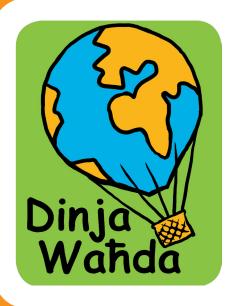
Harsa lejn hajt tas-sejjieh...



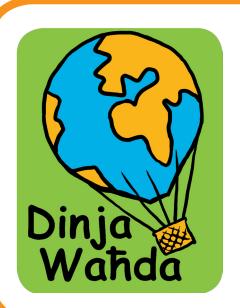
1 Fejn qieghed il-hajt tas-sejjieh? 2 Xijismu Leqreb rahai jew belt? 3 X'hemm in-naha l-ohra tal-hajt? 3 X'hemm in-naha l-ohra tal-hajt? 4 Kemm hu gholi I-hajt? 5 Hemm pjanti qed jikbru fil-hajt? 7 Hemm pjanti fl-art quddiem il-hajt? 8 Tista' ssemmi xi tnejn? 7 Hemm pjanti fl-art quddiem il-hajt? 8 Fhajt tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Fhajt tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Fhajt tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Fhajt tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Fhajt tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Fhajt tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Fhajt tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Frank tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Frank tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Frank tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Frank tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Frank tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Frank tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Frank tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht. 9 Frank tas-sejjieh jghixu hafna hlejlaq. Ara kemm tara minn dawn t'hawn taht.	Jijieh? -hajt? triq CTN CTN hajt? Iva Le fina hlejjaq. Ara kemm tara minn da f	moghdija jaie jaie minn dawn t'hawr m tara	Barra fil-	Barra fil-kampanja laht. lah
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This is a Dinja Waħda school

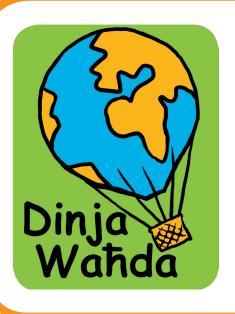


This is a Dinja Wahda class





Din skola Dinja Wahda Dinja Wahda





Din klassi Dinja Waħda