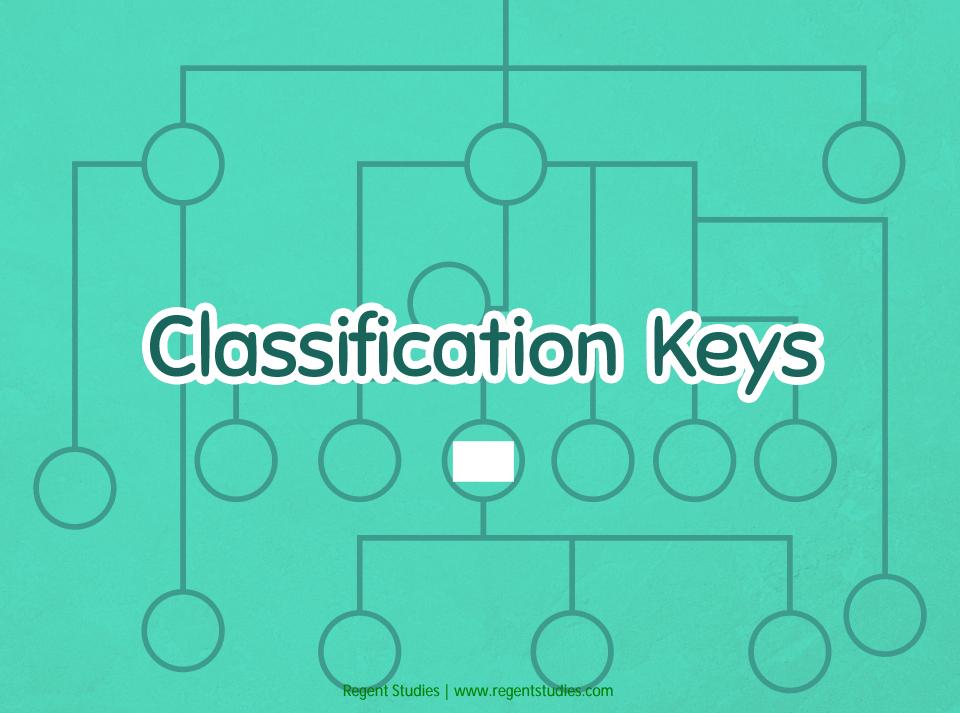
# Science

#### Living Things and Their Habitats



## Aim

- I can create a classification key.
- I can show the characteristics of living things in a table and a key.

## **Success Criteria**

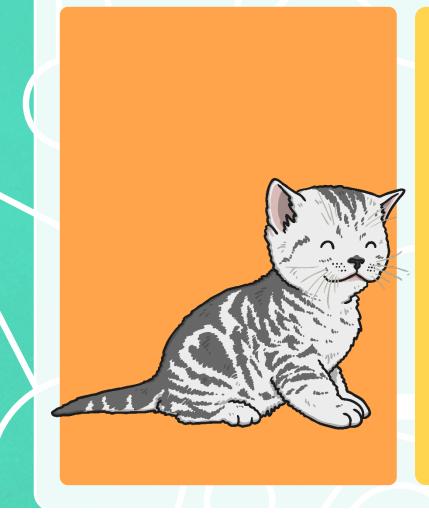
- I can identify the characteristics of living things.
- I can use the characteristics of living things to sort them using a classification key.
- I can show the characteristics of living things in a table.
- I can create a classification key.

Today we are going to create our own branching keys to identify living things by looking at their characteristics.

The characteristics of a living thing are what make it similar or different to other living things.

All species of living thing have a unique set of characteristics.

Species with similar characteristics are put into groups. This is how we classify living things.







These are some of the characteristics of the domestic cat: Has whiskers Has four legs Has fur Is a carnivore Has a tail

These ar**enot** characteristics of the species:

Is awake

Is cute

Likes milk

Is a baby

Plays with string

Why not?



What are the characteristics of this living thing?





What are the characteristics of this living thing?





What are the characteristics of this living thing?



## **Classification Tables**

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Each group will receive pictures of 8 living things.

Record which living thing has each characteristic by putting a tick or a cross in the table on your activity sheet.

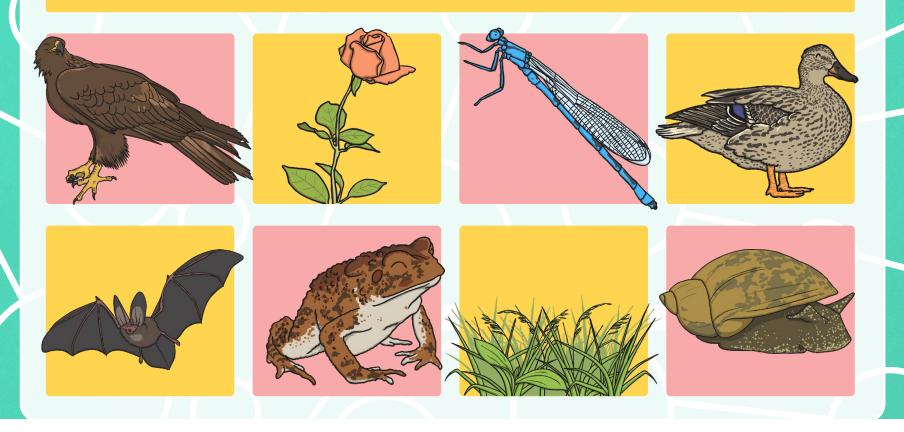
#### Woodland Habitat Classification

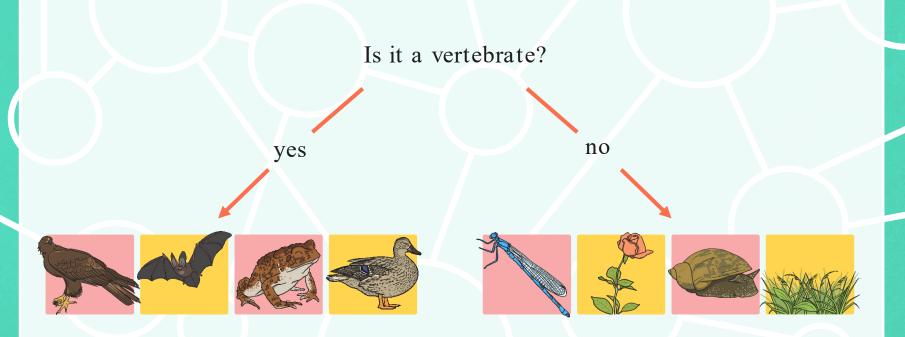
Record which living thing has each characteristic by putting a tick or a cross in the table. Write your own questions in the last two boxes of the table.

	bluebell	badger	owl	woodpecker	hedgehog	oak tree	ant	earthworm
Does it have wings?								
Is it a vertebrate?								
Does it have legs?								
Does it have a trunk?								
Does it have spines?								

You are going to create a classification key to sort your living things.

Look carefully at these living things. What question could you ask to split them into two groups?





Choose one set of living things.

What question could you ask to split these living things into two groups?

Does it have feathers?

no

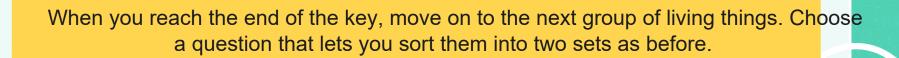


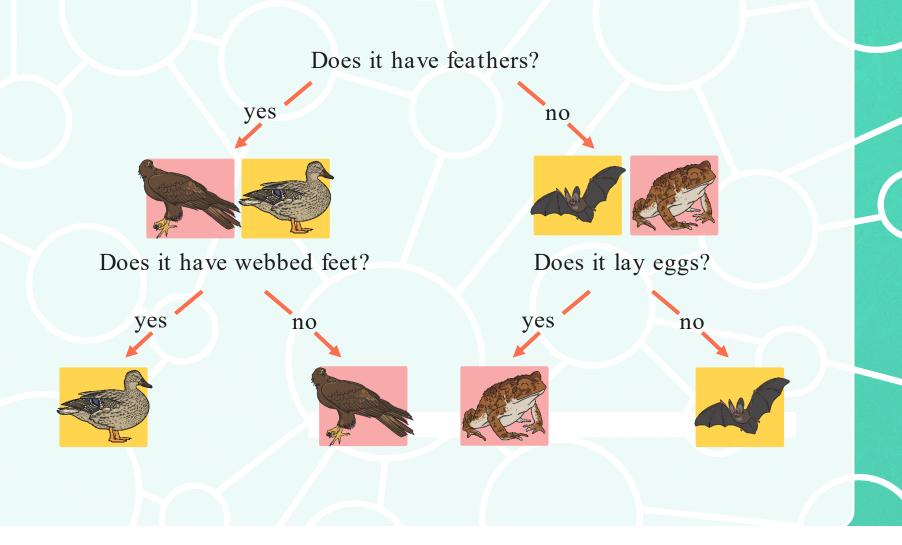
yes

Does it have webbed feet?

no

yes







Have a go at arranging your living things into classification keys by choosing questions that let you split each group into two.

Write your questions on sticky notes and draw arrows to show how you move down the key.

Use the questions on your classification tables as a starting point if you need to.

Be sure to test your key at the end to make sure that the path works correctly for each living thing.

#### **Testing and Evaluating**



Follow the path that leads to each living thing.

Does each path work correctly?

Do the questions used in the key describe the characteristics of the living things?

What could make this key better?

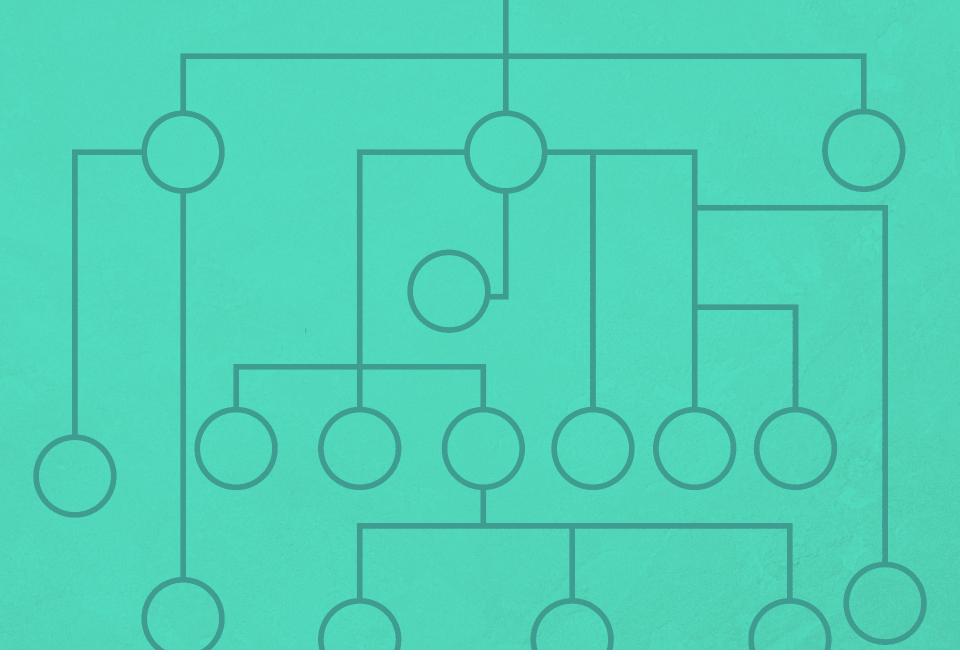
What has been done well?

## Aim

- I can create a classification key.
- I can show the characteristics of living things in a table and a key.

## **Success Criteria**

- I can identify the characteristics of living things.
- I can use the characteristics of living things to sort them using a classification key.
- I can show the characteristics of living things in a table.
- I can create a classification key.



Living Things and Their Habitats | Classification Keys

I can create a classification key.	
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#### Classification Keys Feedback | Classification Keys Feedback

Follow the path that leads to each living thing. Does each path work correctly?

Do the questions used in the key lead to the characteristics of the living things?

What could make this key better?

What has been done well?

Follow the path that leads to each living thing. Does each path work correctly?

Do the questions used in the key lead to the characteristics of the living things?

What could make this key better?

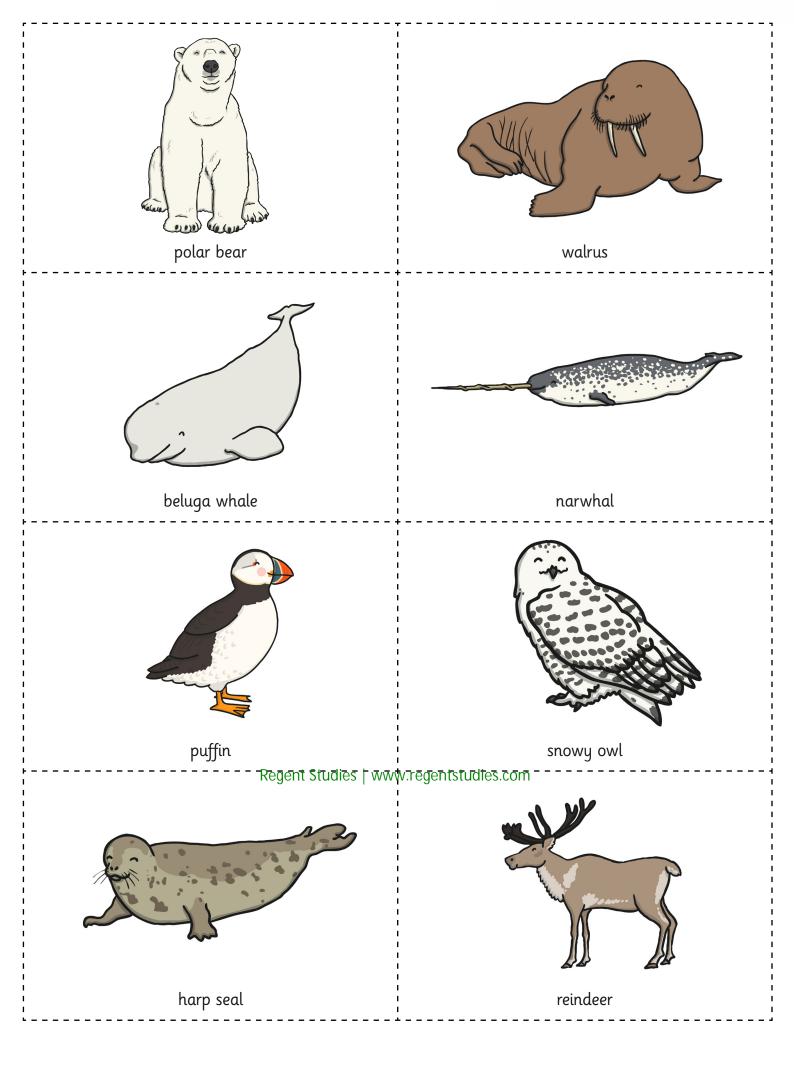
What has been done well?



## Arctic Habitat Classification

Record which living thing has each characteristic by putting a tick or a cross in the table. Write your own questions in the last four boxes of the table.

	polar bear	walrus	beluga whale	narwhal	puffin	harp seal	snowy owl	reindeer
Does it have horns or tusks?								
Does it have feathers?								
Does it live in the ocean?								

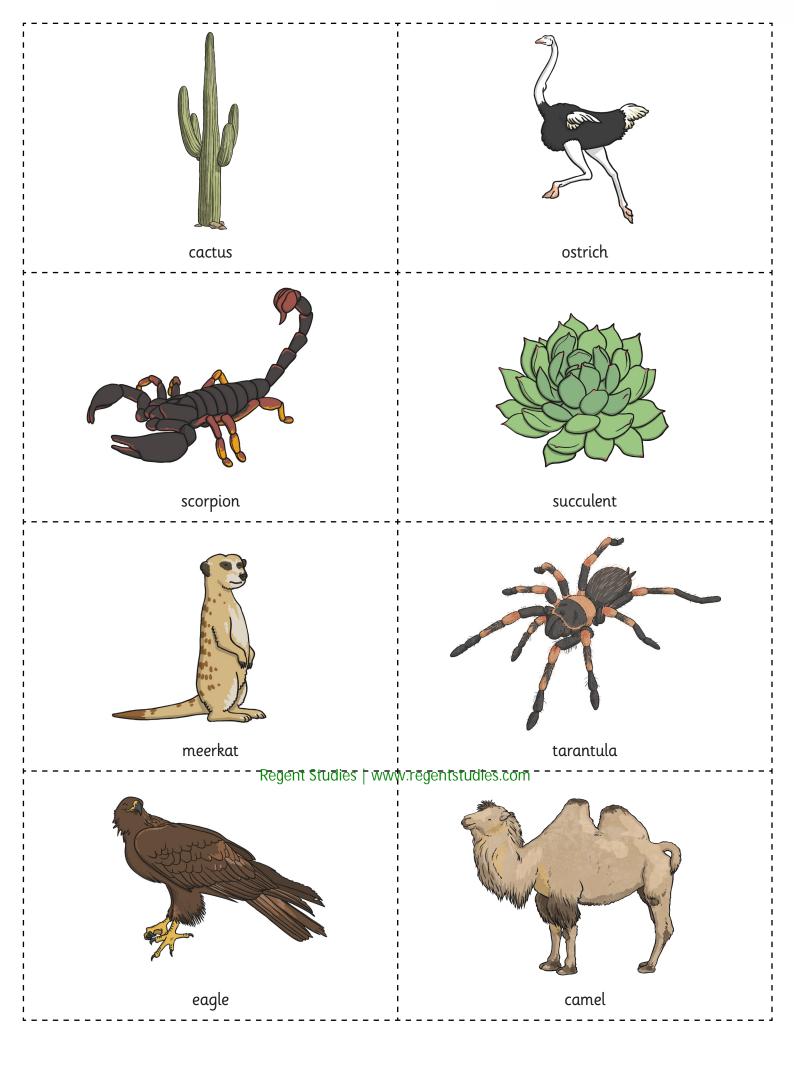


## **Desert Habitat Classification**

Fill in the table with ticks and crosses to show the characteristics of each living thing.

	cactus	ostrich	scorpion	succulent	meerkat	tarantula	eagle	camel
Is it a plant?								
Does it have a tail?								
Is it a vertebrate?								
Does it have spines?								
Does it have a long neck?								
Does it have feathers?								
Does it have hooves?								

\*



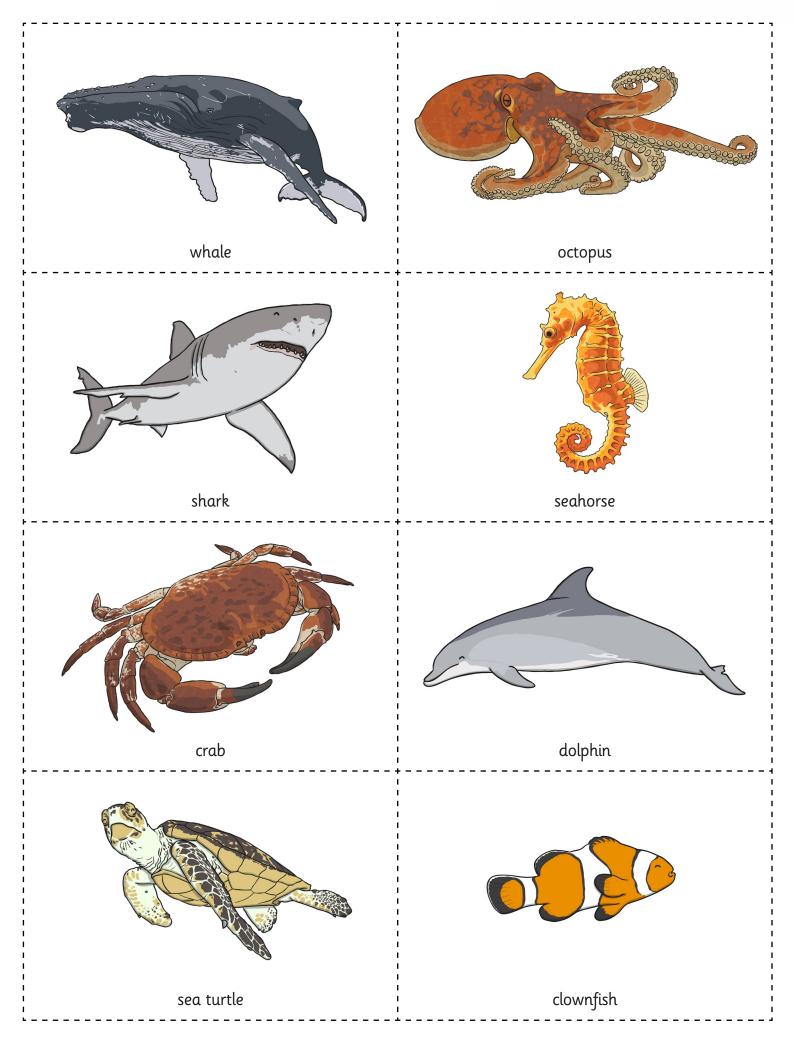
Is it a	plant?	Does it have	a long neck?		
Does it ho	ave a tail?	Does it have feathers?			
Is it a ve	rtebrate?	Does it ha	ve hooves?		
Does it ha	Does it have spines?		Yes		
Yes	Yes	Yes	Yes		
Yes	Yes No		No		
No	Νο	No	No		



# **Ocean Habitat Classification**

Record which living thing has each characteristic by putting a tick or a cross in the table. Write your own questions in the last four boxes of the table.

	blue whale	octopus	shark	seahorse	crab	dolphin	sea turtle	clownfish
Does it have legs?								
Does it have a shell?								
Does it breathe air?								

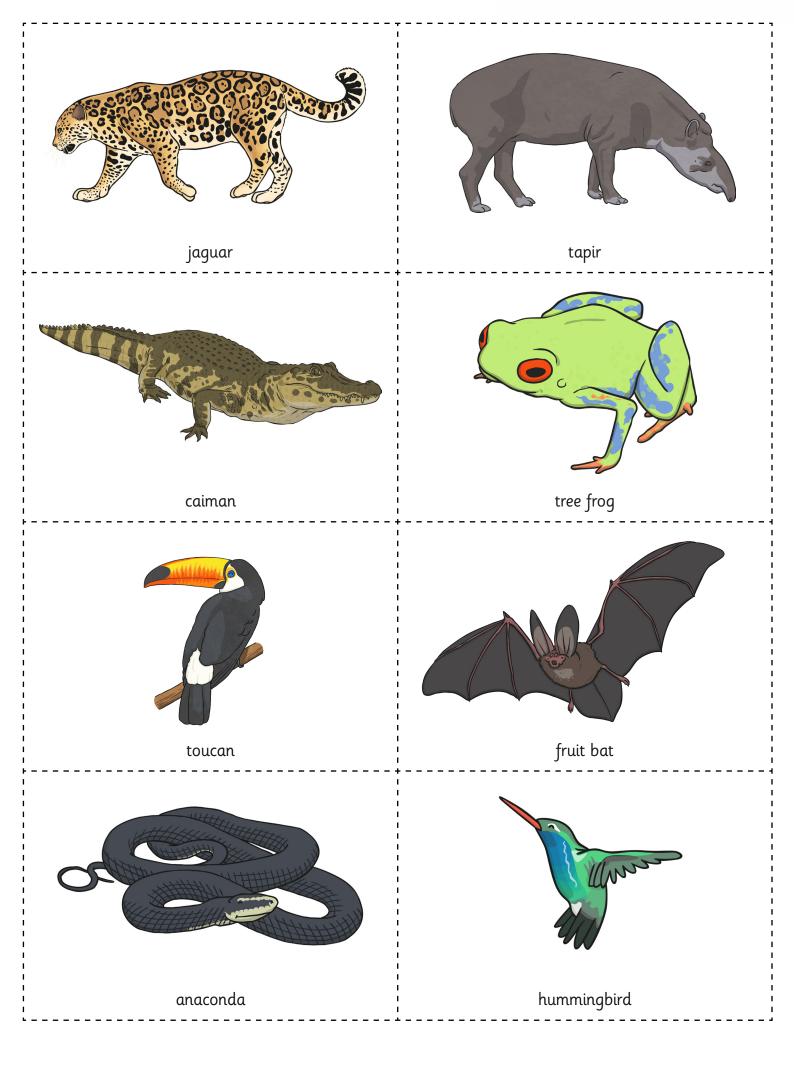


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# **Rainforest Habitat Classification**

Record which living thing has each characteristic by putting a tick or a cross in the table. Write your own questions in the last two boxes of the table.

	jaguar	tapir	toucan	fruit bat	hummingbird	tree frog	anaconda	caiman
Does it lay eggs?								
Does it have scales?								
Does it have wings?								
Does it have a beak?								
Does it have legs?								

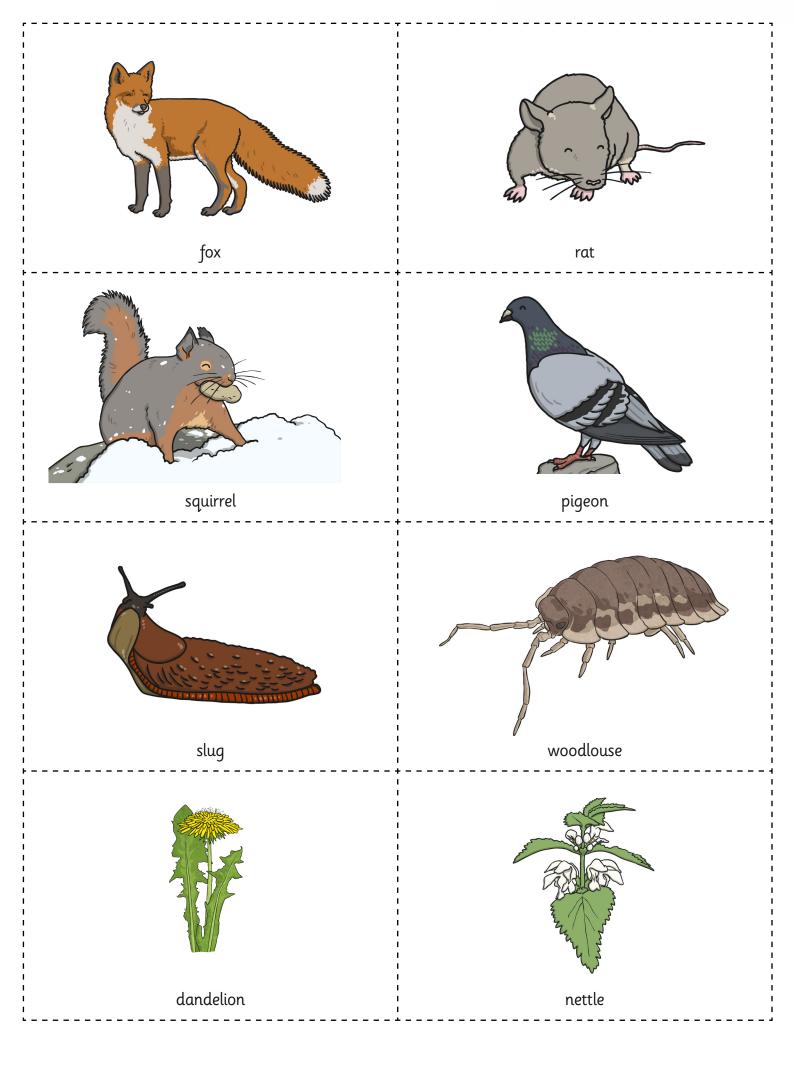


## Urban Habitat Classification

Fill in the table with ticks and crosses to show the characteristics of each living thing.

	fox	rat	squirrel	pigeon	slug	woodlouse	dandelion	nettle
Is it a plant?								
has it got legs?								
Is it a vertebrate?								
Does it climb trees?								
Does it have a bushy tail?								
Does it have feathers?								
Does it have a yellow flower?								

\*



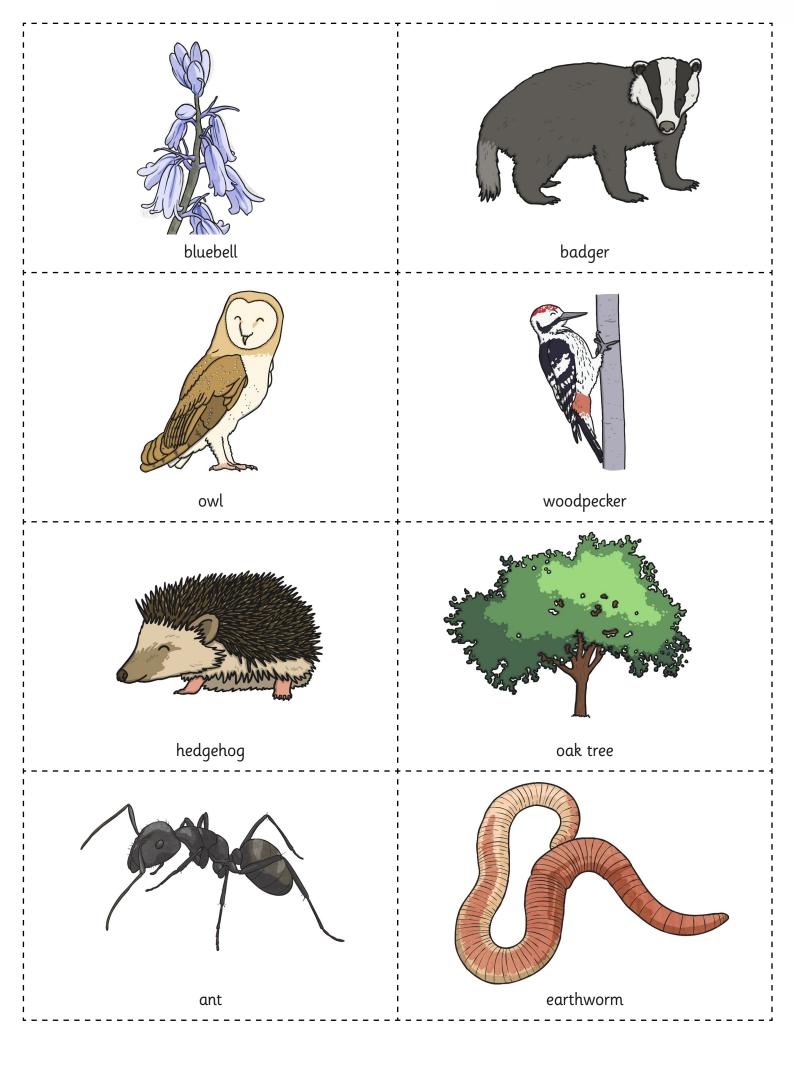
Is it a	plant?	Does it have a bushy tail?			
Has it g	ot legs?	Does it have feathers?			
Is it a ve	rtebrate?	Does it have a yellow flower?			
Does it cli	mb trees?				
Yes	Yes	Yes	Yes		
Yes	No	No	No		
Νο	Νο	Νο	No		

# \*\*

# Woodland Habitat Classification

Record which living thing has each characteristic by putting a tick or a cross in the table. Write your own questions in the last two boxes of the table.

	bluebell	badger	owl	woodpecker	hedgehog	oak tree	ant	earthworm
Does it have wings?								
Is it a vertebrate?								
Does it have legs?								
Does it have a trunk?								
Does it have spines?								



#### **Living Things and Their Habitats:** Classification Keys

Aim: To explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment by creating classification keys. I can create a classification key. Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions by	Success Criteria: I can identify the characteristics of living things. I can use the characteristics of living things to sort them using a classification key. I can show the characteristics of living things in a table. I can create a classification key.	<b>Resources:</b> Lesson Pack Mini whiteboards and pens – class set Sticky notes
creating tables and keys showing the characteristics of living things. I can show the characteristics of living things in a table and a key.	<b>Key/New Words:</b> Characteristic, classification, key.	Preparation: Classification Keys Feedback Activity Sheet - 1 per group Classification Activity Pack - 1 per group

**Prior Learning:** Children will have previous experience of using classification keys in lessons 2 and 3.

particular circumstances. Look at the examples of living things on the <b>Lesson Presentation</b> . In pairs, children list the characteristics of some living things on a mini whiteboard, then share with the rest of the class. Address misconceptions.	
<b>Classification Tables:</b> Split the class into ability groups of 3 or 4 children. Distribute the differentiated <b>Classification Activity Packs</b> . Each child should fill in the differentiated <b>Habitat Classification Activity</b> <b>Sheet</b> by filling in ticks and crosses to show which living thing from their cards has each characteristic.	
Children fill in a classification table where all questions have been provided.	
<b>Classification Keys:</b> Use the Lesson Presentation to explain how to construct classification keys. Working in small groups, children use the living things cards from the <b>Classification Activity Packs</b> to construct classification keys. Children generate appropriate questions, write them on sticky notes and organise their cards and questions into position to construct a working key. Children may use the questions on their Habitat Classification Activity Sheets as a starting point if they wish (question cards have been included for use with the LA Activity Packs if appropriate).	
<b>Testing and Evaluating:</b> Still working in their groups, children test and evaluate the classification key produced by another group, checking that the pathway for each living thing works correctly, and that appropriate questions have been used. Children write their feedback on the Classification Keys Feedback Activity Sheet.	

keys, for example food, shapes, toys or numbers.

**Play**it: Play this to sort the deadly animals into groups based on their characteristics.