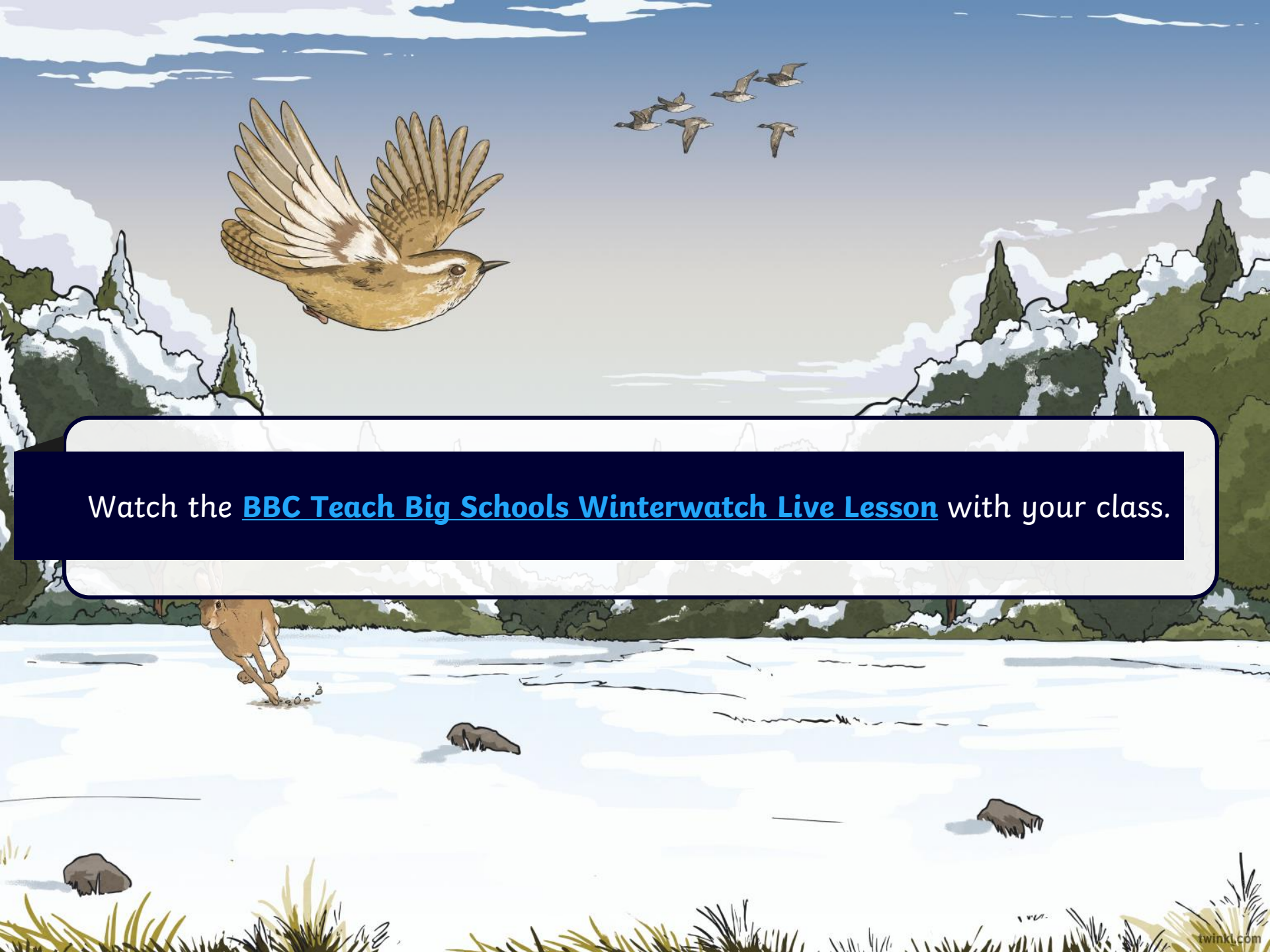


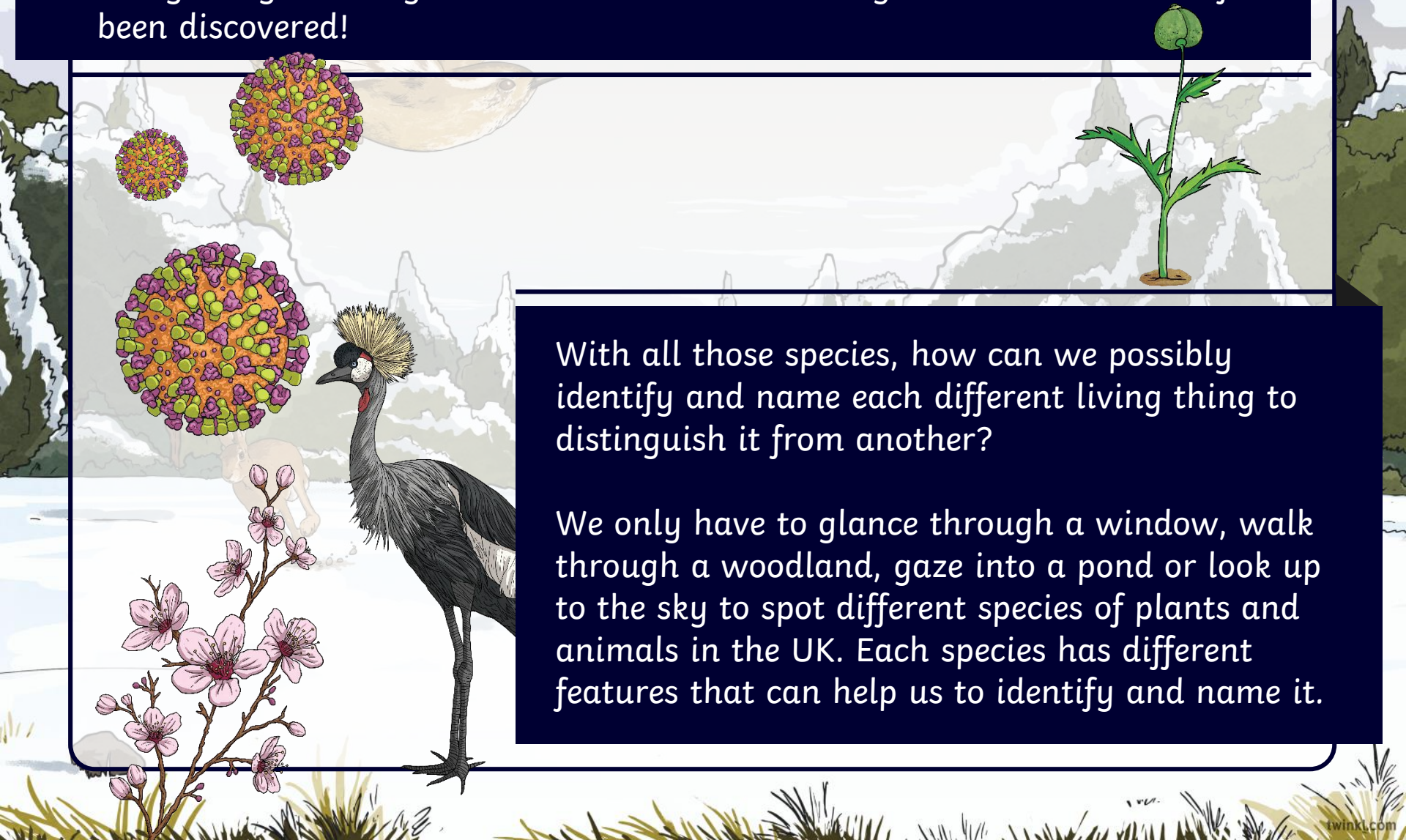
We hope you find the information on our website and resources useful. This resource contains links to external websites. Please be aware that the inclusion of any link in this resource should not be taken as an endorsement of any kind by Twinkl of the linked website or any association with its operators. You should also be aware that we have no control over the availability of the linked pages. If the link is not working, please let us know by contacting TwinklCares and we will try to fix it although we can assume no responsibility if this is the case. We are not responsible for the content of external sites.





Watch the [BBC Teach Big Schools Winterwatch Live Lesson](#) with your class.

Worldwide, there are estimated to be over 15 million different species of living things although scientists estimate that only two million have so far been discovered!



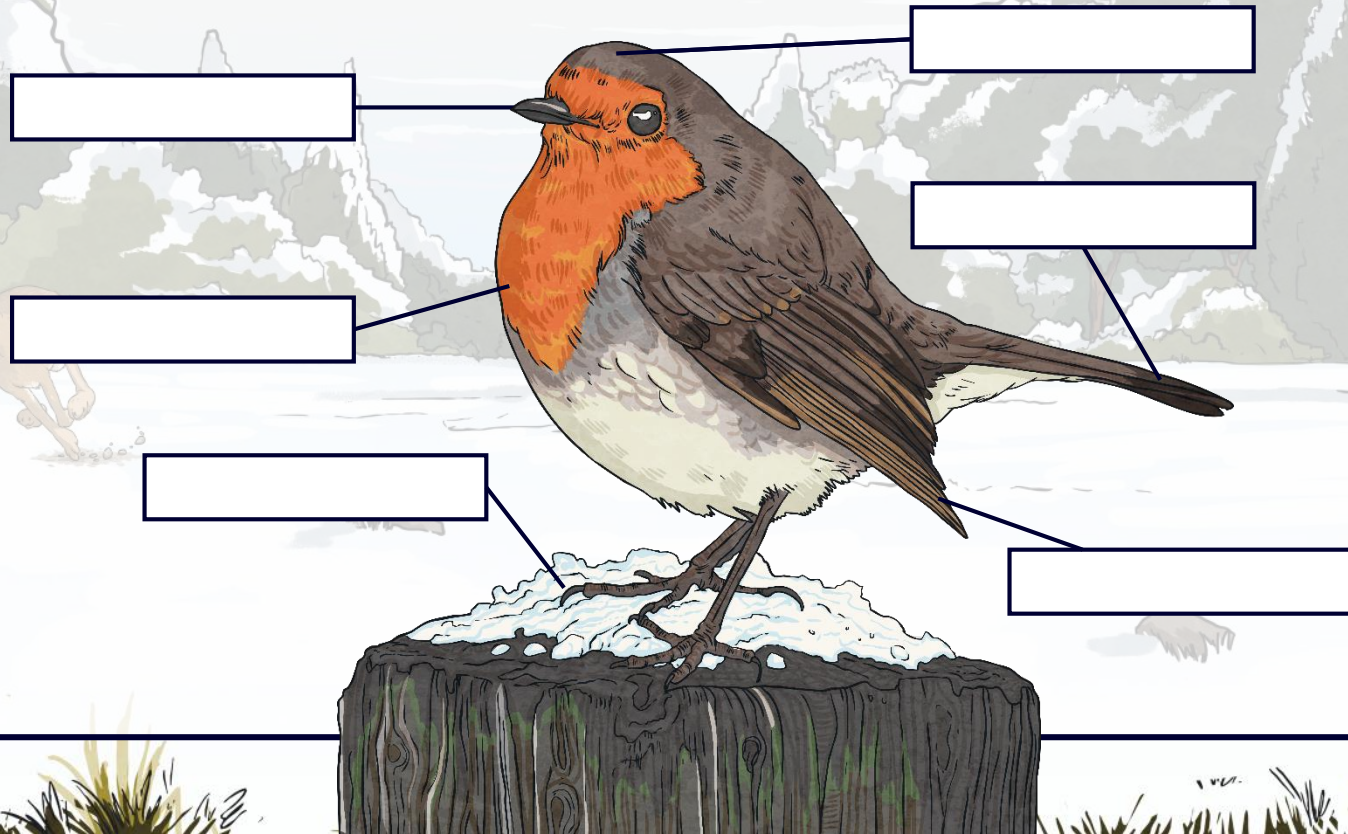
With all those species, how can we possibly identify and name each different living thing to distinguish it from another?

We only have to glance through a window, walk through a woodland, gaze into a pond or look up to the sky to spot different species of plants and animals in the UK. Each species has different features that can help us to identify and name it.

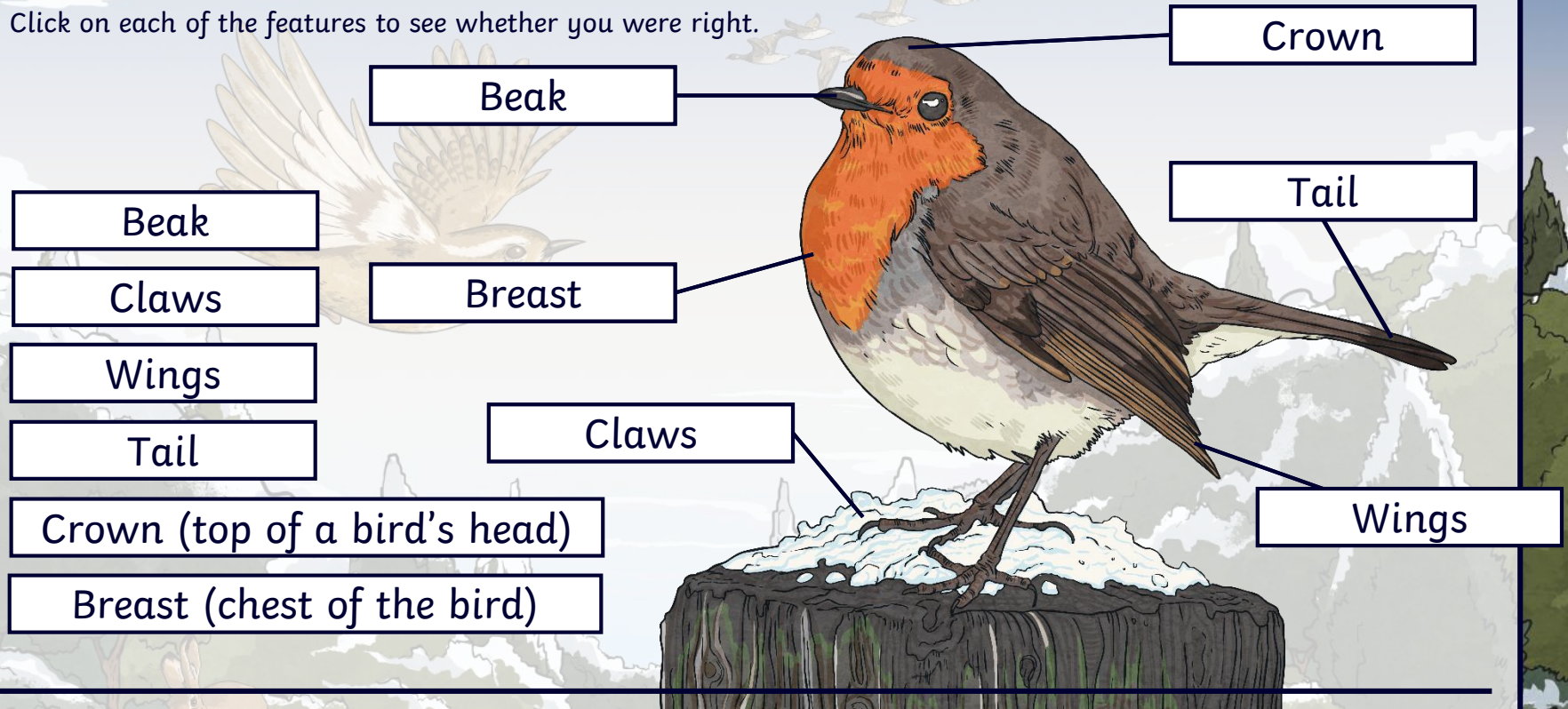
Many species share similar features: birds, for example, all share physical characteristics and physiological characteristics (related to the way they function).

We can use careful observation of the colour, size and shape of their physical features to narrow down the species of bird.

How many of the features below can you identify?



Click on each of the features to see whether you were right.

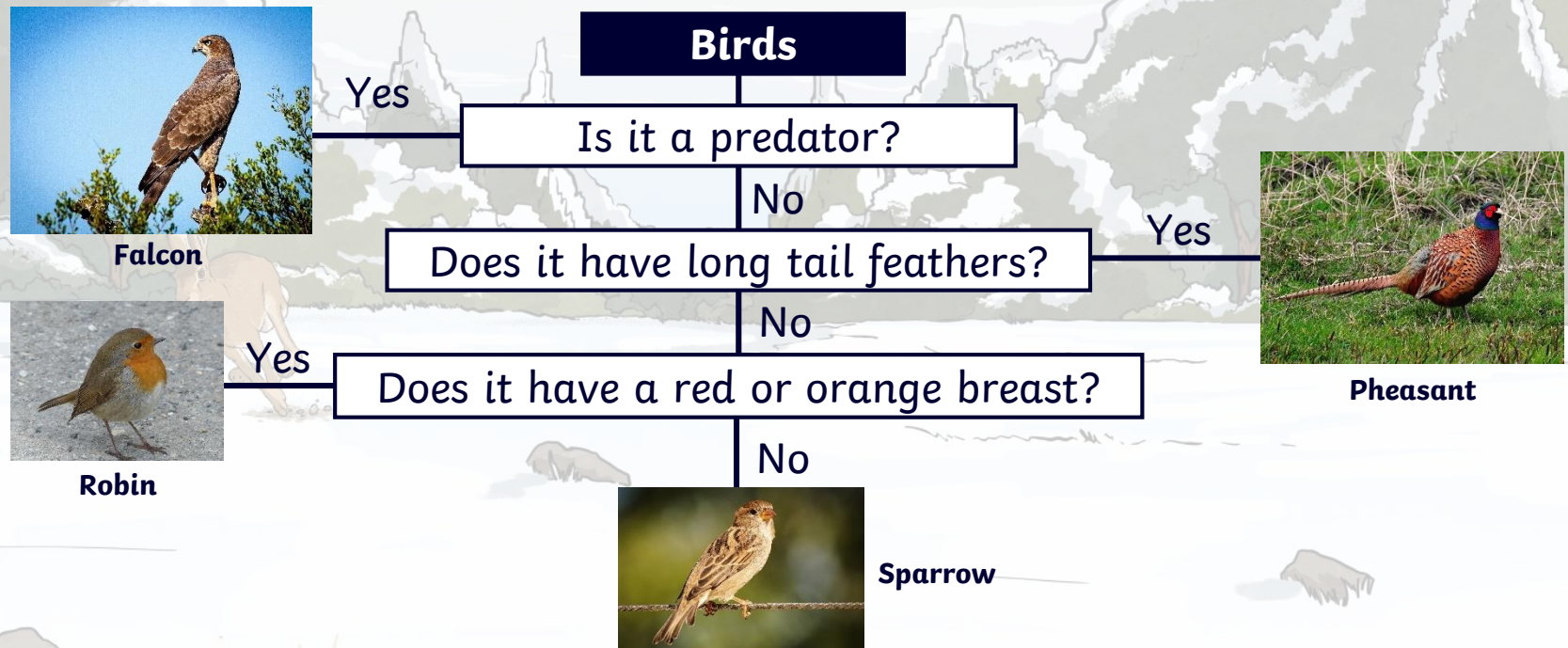


All birds have beaks, feathers, two legs and two wings, and those that can fly have special feathers, called flight feathers, on their wings and tail to help them fly. Interestingly, birds that cannot fly, such as ostriches and penguins, do not have these but have adapted to move in other ways: ostriches' legs are longer than any other bird's so they can run very fast, while penguins have webbed feet for swimming.

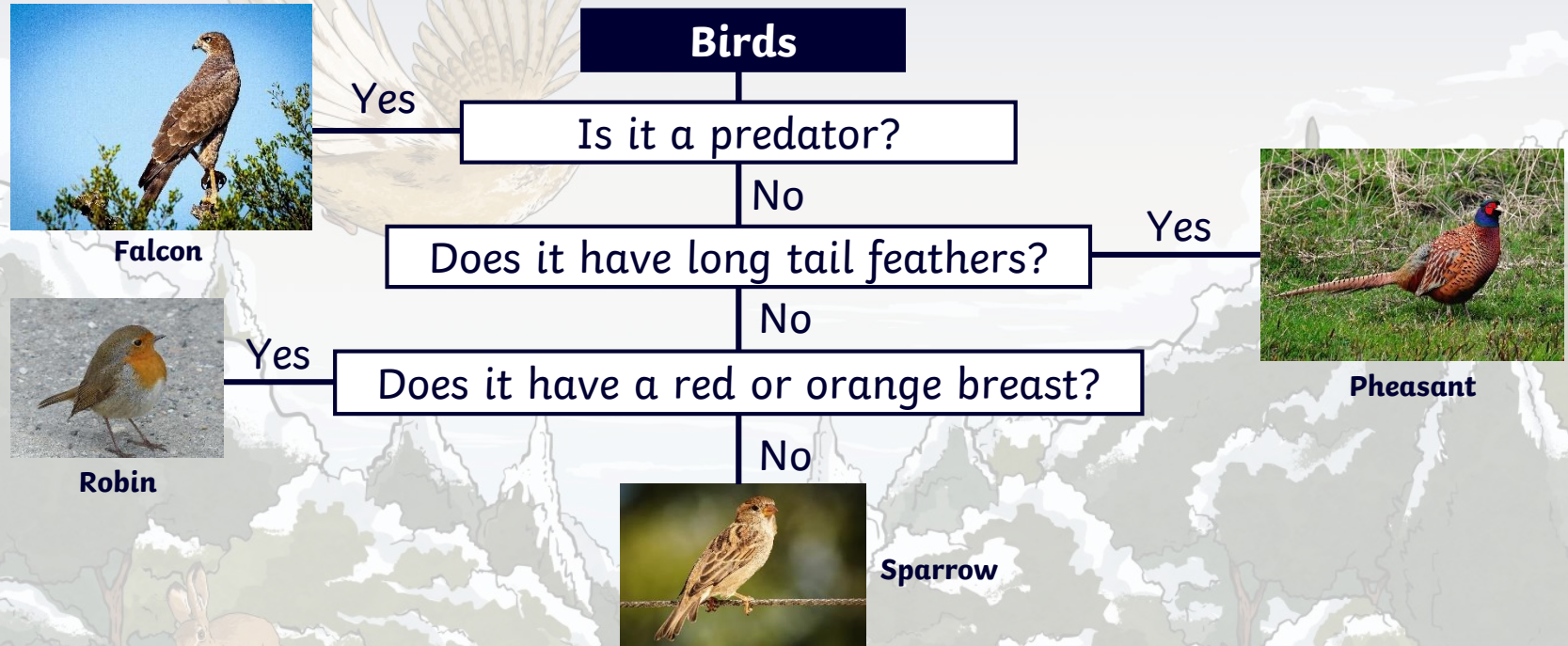
Once we can recognise different features, we can use these to classify (sort) living things using a classification key.

This is a series of questions that help us to identify a living thing or decide which group it belongs to, based on its characteristics.

A classification key to sort birds, for example, might look like this:



A classification key to sort birds, for example, might look like this:



Good questions to use in a classification key ask about the physical features, size and appearance of living things, as well as their habitats. If your classification key is detailed enough, it could even help you to identify an unknown living thing!

Since there are so many millions of species, many of which share similar features, scientists use a system called the binomial system to classify (group) living things into five kingdoms, which include animals and plants.

These kingdoms are then broken down into smaller levels:

Phylum

Family

Class

Genus

Order

Species

The binomial system categorises living things so well that it allows scientists to identify individual species easily. For example, there are many different species of robin all over the world, such as the *Erithacus rubecula* (European robin), *Petroica australis* (New Zealand robin) and *Turdus migratorius* (American robin). These all belong to a different genus.



After you've learned how to identify, describe and classify living things, it might be helpful to others if you can pass on what you've learnt.

We find instruction texts that help us to understand how to do something all around us: internet video tutorials, recipe books, how-to guides, product demonstrations and video game walk-throughs are just a few examples of these.

Why not create a how-to guide to help others learn about identifying living things?

Can you identify some features that we might expect to see in a how-to instructional text?

Checklist

- | | |
|------------------------------------|---------------------------|
| • Title | • Time conjunctions |
| • Introduction | • Technical language |
| • Instructions sequenced logically | • Diagrams or photographs |
| • Present tense | • Concluding statement |
| • Imperative verbs | |

The background of the slide is a stylized illustration of a natural landscape. It features a range of mountains in the distance, a river or body of water in the middle ground, and a kangaroo in the foreground on the left. The sky is light blue with some clouds. The entire scene is framed by a dark blue border.

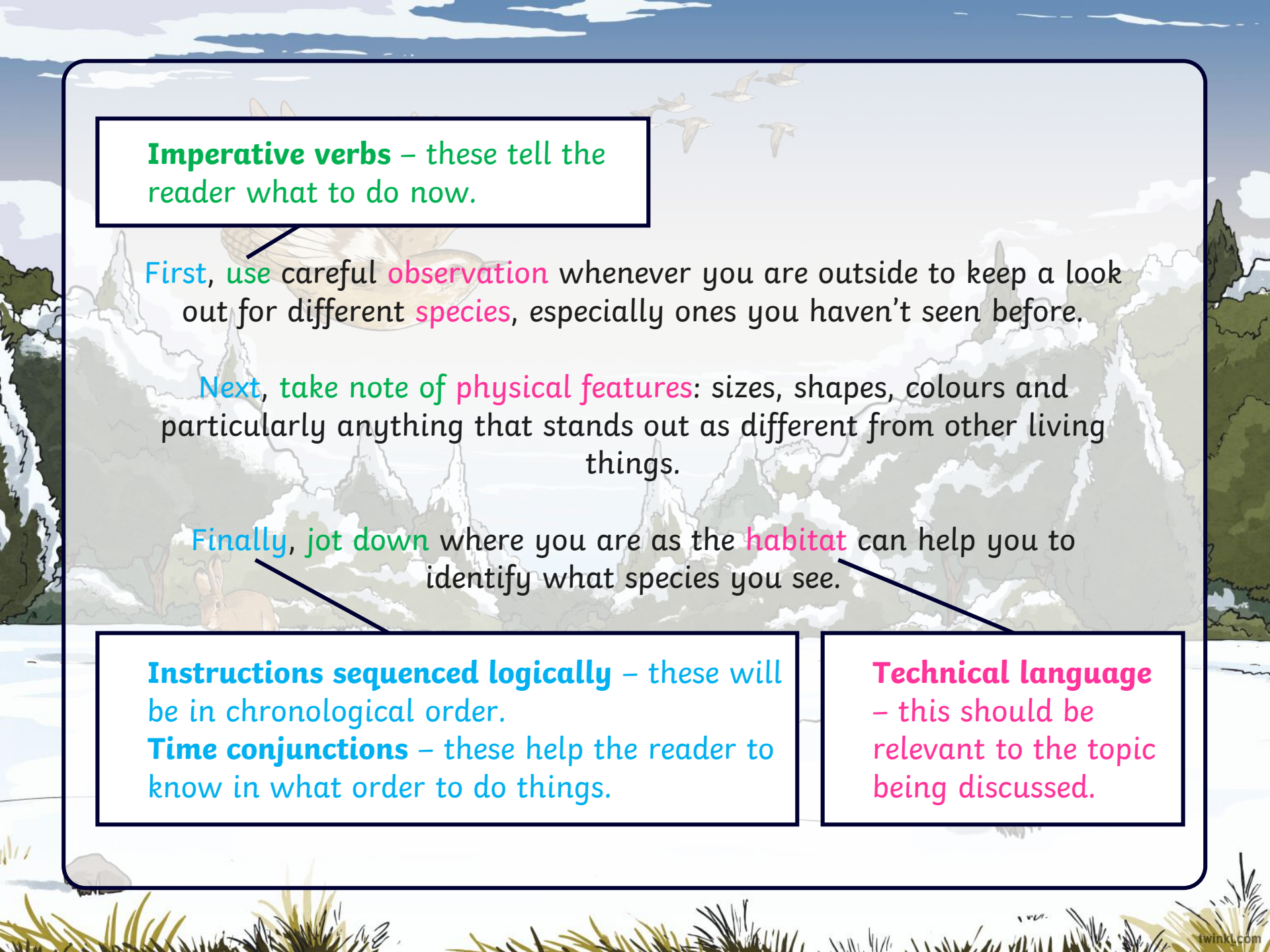
How many of those features can you identify in the instructional text below?

How to Identify Different Species

Title – this should capture the imagination of the reader. Try to make it something that the reader will learn how to do from the text.

Worldwide, scientists believe there are over 15 million different species (types) of living things although only two million have so far been discovered! With all those species, how can we possibly identify and name each different one?

Introduction – this should be a short paragraph giving some background information and explaining what the guide will teach the reader.



Imperative verbs – these tell the reader what to do now.

First, use careful **observation** whenever you are outside to keep a look out for different **species**, especially ones you haven't seen before.

Next, take note of **physical features**: sizes, shapes, colours and particularly anything that stands out as different from other living things.

Finally, jot down where you are as the **habitat** can help you to identify what species you see.

Instructions sequenced logically – these will be in chronological order.

Time conjunctions – these help the reader to know in what order to do things.

Technical language
– this should be relevant to the topic being discussed.



Different species can vary in shape, size and colour.

Diagrams or photographs – these help the reader to see things discussed in the text.

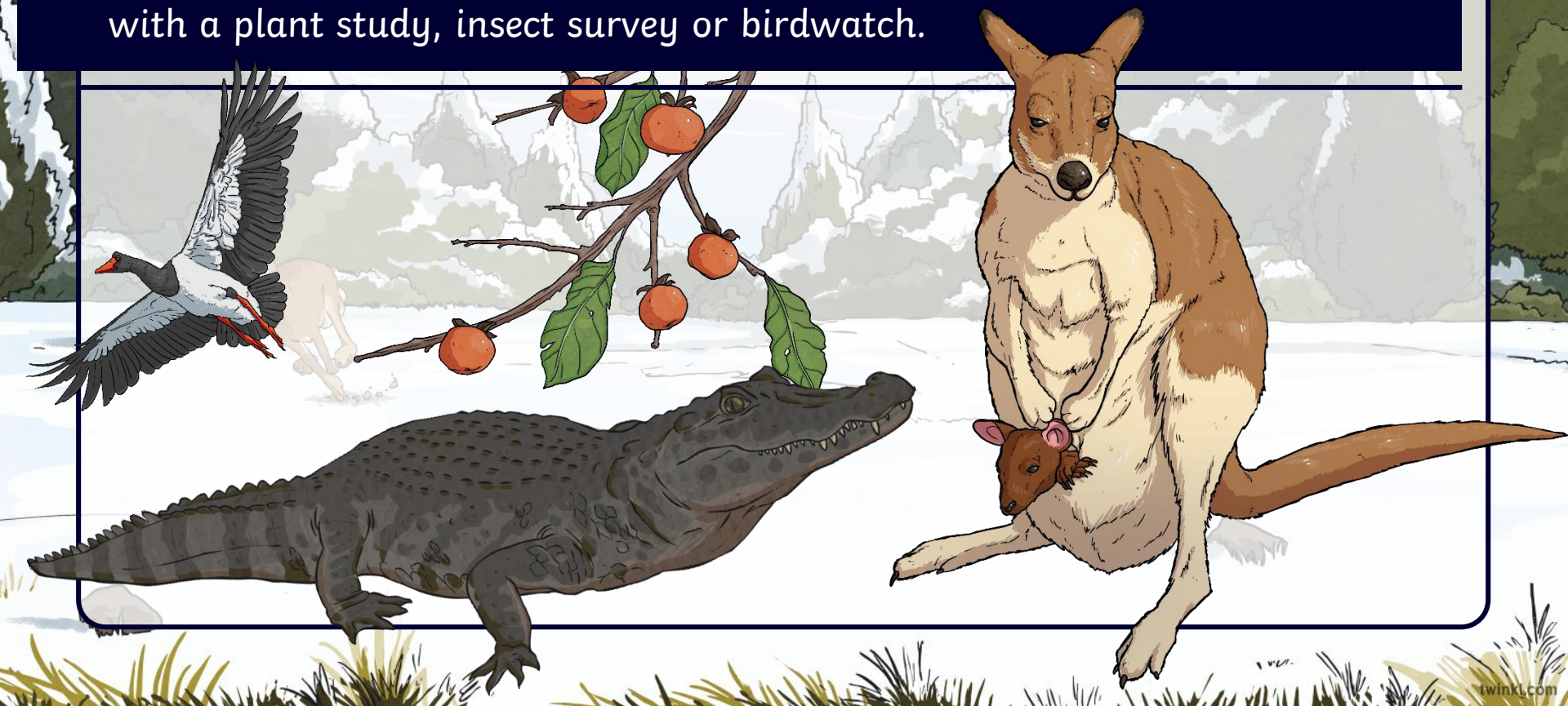
Now that you have lots of information, you can start to identify the species you have seen using a classification key, fact file, encyclopaedia or similar search tools.

Concluding statement – this encourages the reader to take action!

So now you have all the tools you need to identify, describe and classify living things.

Wherever we live, visit or go to school, there is likely to be a huge number of different species we can identify if we look carefully enough.

Try putting what you have learnt into practice in your local area, perhaps with a plant study, insect survey or birdwatch.





BBC Teach

Live Lessons

