





Welcome to the Great British Bug Hunt, this is a very exciting project to support the wildlife in your garden. Whilst you are self-isolating, please could you help the bees, butterflies and bugs in your area by becoming a nature detective? This involves learning about pollinator insects and the plants that support them, planting the enclosed plants in your garden to attract more, observing their behaviour and taking part in regular insect count.

Your nature detective kit includes this beautifully illustrated guide containing butterfly, bee and bird spotting guides, nature puzzles, games and activities to challenge and expand your knowledge of wildlife.

Information about how you can take part in a wildlife survey which will help you to recognise and measure the various creatures that come to visit as well as the opportunity to talk to other people about your findings. Plus two pollinator plants and a laminated bug identification sheet to help you encourage more wildlife visitors into your garden.



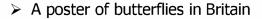
- An introduction to the wonderful world inside your garder
- Pollinator Plants Poster illustrated by Rachel Corney
- > Instructions on how to plant your pollinator plants and why we need them
- ➤ What to plant to plant to attract bees and butterflies into your garden











- > Butterfly spotting information
- > What to plant to attract caterpillars and butterflies into your garden
- ➤ How to make a butterfly feeder
- > Butterfly games crossword, anagrams, wordsearch and butterfly bingo

Bees

- > Bee spotting information
- > A bee spotting poster
- > Big 7 Common Bumblebee ID Poster to help you tell the difference
- > Taking part in the National PoMS Bee and Butterfly
- ➤ How to carry out a FIT (Flower Insect Timed) count
- > FIT Count data recording form
- > Join a 'Nature Calls' group with 3 other people to discuss your findings
- > How to build a bug house with things you have at home
- > Bee Games including a crossword, anagrams, a wordsearch and bug bingo

Birds

- Bird spotting information
- British Garden Birds poster
- Bird Games Bird and Bird Song Bingo
- > Bird crosswords, anagrams and a wordsearch

Hedgehogs

- Encouraging hedgehogs into your garden
- How to build a hedgehog house with things you have at home

Appendix

- > Extra PoMS insect Count forms
- > Anagram, crossword & wordsearch answers
- Where to send your photos and videos









Your Garden Wilderness

Your garden is a mini ecosystem with lots of things working together, many different plants, bugs, bees, butterflies and birds have made your garden their home. Just look to your side,

above your head or beneath your feet and you will find an incredible variety of creatures living alongside you.

Where do all these creatures live? Peer amongst the long grass and bushes you will find spiders living in their webs, sheildbugs perching on leaves and froghopper nymphs hiding in frothy piles of Cuckoo spit.

Butterflies, bees and hoverflies can all be seen visiting flowers and if you look



closely into the flower heads you will find earwigs and small flower beetles. Look at the stems and under leaves and you will find caterpillars, aphids and ladybirds.

Slugs, snails and woodlice live underneath flowerpots and stones. Beetles and earthworms make burrows under the ground below your grass and plants and if you look closely after it has rained you'll see them come to the surface.

Handle with care

These animals are very fragile so take care when handling them, try not to handle them too much, a plastic teaspoon, piece of paper or paintbrush is a good way to pick them up.



A plastic pot or an empty jam jar can be used for putting them in while you have a closer look, but remember to put them back where you found them once you have finished looking at them.

Some insects can sting, while others can give you a painful nip, so handle with care.



Planting your pollinator plants and why do we need them?



You should have received some plants that will attract a range of pollinating insects into your garden. Please plant these as soon as you can in a sunny spot, level with the ground and give them plenty of water over the next few days to help them settle in. You might like to think about other plants that you could introduce to your garden to help create biodiversity corridors throughout our towns and cities.

What are pollinators?

Pollinators are insects that move pollen from male structures (anthers) of flowers to the female structure (stigma) of the same plant species. Pollination is mutually beneficial to plants and pollinators. It is necessary for many plants to reproduce and the sugary nectar provides the pollinators with carbohydrates and the pollen offers proteins, fats, vitamins, minerals, and necessary phytochemicals.

Examples of pollinators

Honeybees often come to mind first when people think of pollinators. However, many different animals, including other insects (other bee species, butterflies, beetles, flies), some birds and some bats are pollinators. Indeed, there are an estimated 300,000 species of flowering plants worldwide that require animal pollinators.



Pollinators are necessary for three-quarters of our major food crops

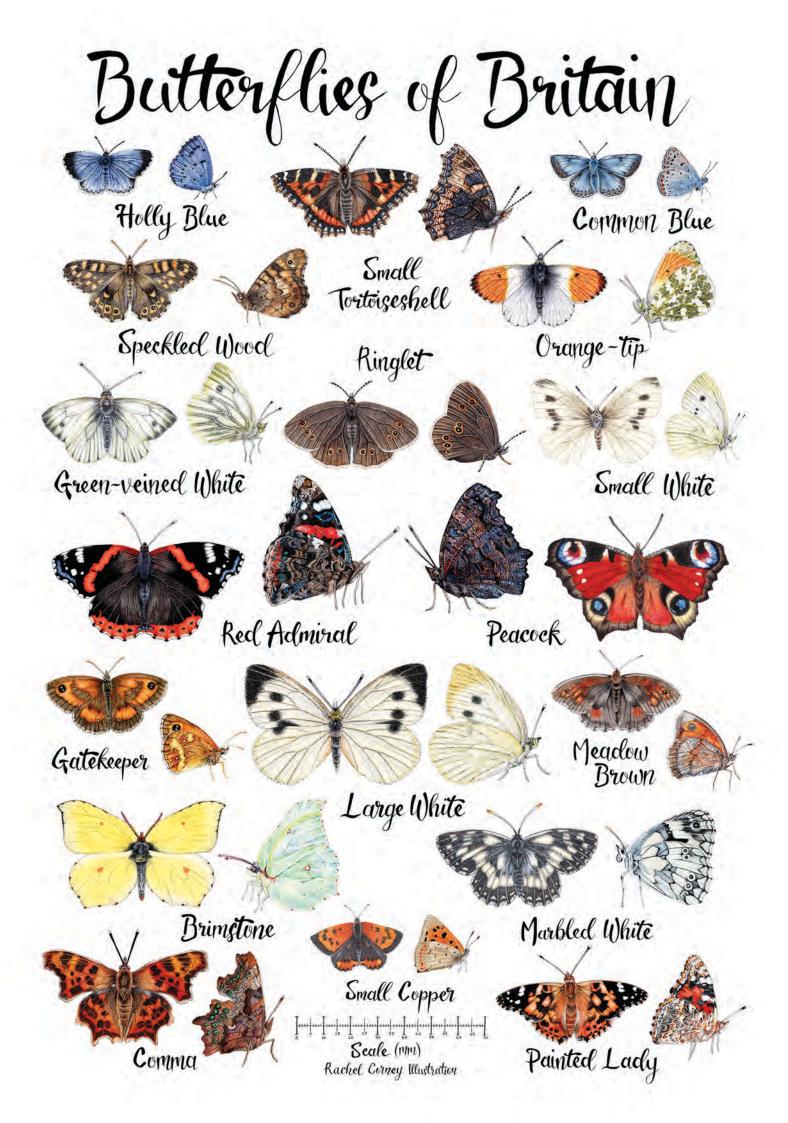
Not every species of plant requires animal-mediated pollination services. For example, wheat is wind-pollinated. However, the majority of crops that we like most to eat and provide most of our nutrition (fruits, vegetables, and nuts) use animal-mediated pollination. Without pollinators, our diets would be severely limited, and it would be more difficult to acquire the variety of vitamins and minerals that we need to stay healthy.



Healthy pollinators and healthy ecosystems

Plants are the foundation of our food chains as well as providing shelter and nesting habitat for many different animal species. In order to maintain the diversity of our natural ecosystems, we need healthy pollinator populations to ensure that the next generation of plants will be produced.

Please have a look at the various charts included which illustrate the type of plants you could think about planting in your garden to support pollinating insects.











Butterfly Spotting

The life span of an adult butterfly depends on the species and weather conditions, a small species such as the common blue may live for only a few days whereas a Peacock may emerge from its pupa in early August, feed up and hibernate, mate and lay eggs in the spring and still be on the wing in early June the following year.

Butterfly wings consist of a membrane covered in loosely attached scales, their colours have evolved both as a means of recognizing or attracting a potential mate (display colours) and as camouflage to avoid predators. In the Orange-tip the bright colours of the male are display colours which identify it to a female, whereas the mottled green pattern of the underside helps to camouflage it when it's resting.



Each butterfly species has its own habitat requirements. These are determined by the foodplant of the caterpillar, the nectar source for the adult butterfly and the conditions needed for the caterpillar to survive and then pupate successfully. Some butterflies are happy to live and feed on several plants and can breed in a variety of places, including gardens and parks. Others are fussier and have very specific requirements.



Habitat loss is the main cause of the decline of butterflies and moths. Land management techniques such as the intensification of farming and woodland management, industrial development of buildings and roads and climate change are all having an impact.

Butterflies and moths are very sensitive, reacting very quickly to any changes in their environment which makes them excellent biodiversity indicators. Butterfly declines are an early warning for other wildlife losses which is why counting butterflies is described as taking the pulse of nature.

The charts show what you can plant to offer a range of nectar rich plants throughout each season.



Planting to attract butterflies and caterpillars

The good news is that we can help butterflies and moths through gardening! Collectively our gardens can provide important places, homes and food sources for these special creatures. When planting to attract butterflies, it's a good idea to also consider the caterpillar food plants which sometimes get overlooked in favour of pretty flowers!

FLOWERING MARCH TO APRIL	FLOWERING MAY TO JUNE	FLOWERING JULY TO NOVEMBER
Apple, Malus domestica	Allium spp.	Bramble, Rubus fruticosa
Aubretia, Aubretia spp.	Birds-Foot Trefoil, Lotus corniculatus	Buddleja spp.
Bluebell, Hyacinthoides non-scripta	Bush Vetch, Vicia sepium	Candytuft, Iberis spp.
Bugle, Ajuga reptans	Bellflower, Campanula spp.	Cardoon, Cynara cardunculus
Cherry, Prunus spp.	Ceanothus	Calmint, Nepeta spp.
Cuckooflower, Cardamine pratensis	Clover, Trifolium spp.	Cinquefoil, Potentilla reptans
Forget-Me-Not, Myosotis sylvatica (biennial)	Comfrey, Symphytum spp.	Comflower, Centaurea cyanus (annual)
Flowering Currant, Ribes sanguineum	Cotoneaster	Cosmos, Cosmos bipinnatus (annual)
Grape Hyacinth, Muscari armeniacum	Cranesbill, Geranium spp.	Dahlia spp. (single flowered varieties)
Heather, Erica carnea	* Escallonia	Fennel, Foeniculum vulgare
Honesty, Lunaria annua (biennial)	Everlasting Pea, Lathyrus latifolius	Gaillardia, Gaillardia aristata
Lungwort, Pulmonaria spp.	French Marigold, Tagetes patula (annual)	Globe Thistle, Echinops ritro
Pear, Pyrus spp.	Granny's Bonnet, Aquilegia spp.	Hebe, Hebe spp.
Plum, Prunus domestica	Hawthorn, Crataegus monogyna	Hemp Agrimony, Eupatorium cannabinum
Primrose, Primula vulgaris	Honeysuckle, Lonicera spp.	Hyssop, Hyssopus officinalis
Goat Willow, Salix caprea	Kidney Vetch, Anthyllis vulneraria	Ice Plant, Sedum spectabile
Rosemary, Rosmarinus officinalis	Red Campion, Silene dioica	lvy, Hedera helix
Sweet Rocket, Hesperis matronalis (biennial)	Rose, Rosa spp. (single-flowered varieties)	Knapweeds, Centaurea spp.
Sweet William, Dianthus barbatus	Sage, Salvia spp.	Lavender, Lavandula spp.
	Summer Heather, Calluna vulgaris	Origanum spp.
	Thyme, Thymus vulgaris	Michaelmas Daisy, Aster spp.
	Tufted Vetch, Vicia cracca	Mint, Mentha spp.
	Wallflower, Erysimum spp. (annual or perennial)	Phlox, Phlox drummondii (annual) or Phlox paniculata
		Pot Marigold, Calendula officinalis
		Purple Loosestrife, Lythrum salicaria
Nectar plants for butterflies. Note: These plants are perennial unless stated.		Red Valerian, Centranthus ruber
		Rock-rose, Cistus spp.
		Scabious, Scabiosa spp.
1,10,10,11,10,11,11,11,11,11,11,11,11,11	-3.5 -3.	Scorpion Weed, Phacelia tanacetifolia (annual)
Butterfly		Sea Holly, Eryngium spp.
		Sunflower, Helianthus annus (annual)
T		Teasel, Dipsacus fullonum (biennial)
Conservation		This Have Condense and Cincinna

Saving butterflies, moths and our environmen

Thistles, Carduus and Cirsium spp.

Viper's Bugloss, Echium vulgare (biennial)

Verbena bonariensis

CATERPILLAR FOODPLANTS: BUTTERFLIES

TREES AND SHRUBS	7-2-2	1
Alder Buckthorn, Frangula alnus	Brimstone	
Blackthorn, Prunus spinosa	Brown Hairstreak	
Buckthorn, Rhamnus cathartica	Brimstone	
Holly, Ilex aquifolium	Holly Blue	
Oak, Quercus robur	Purple Hairstreak	

Bird's-foot-trefoil, Lotus corniculatus	Common Blue, Green Hairstreak
Broom, Cytisus scoparius	Green Hairstreak
Garlic Mustard, Alliaria petiolata	Orange-tip
Grasses, Agrostis spp. Dactylis glomerata, Elytrigia repens	Skippers, Marbled White, Meadow Brown, Gatekeeper, Ringlet, Speckled Wood
Honesty, <i>Lunaria annua</i>	Orange-tip
Hop, Humulus lupulus	Comma
lvy, Hedera helix	Holly Blue
Lady's Smock, Cardamine pratensis	Orange-tip
Nasturtium, <i>Tropaeolum majus</i>	Large White, Small White and Green-veined White
Nettle, Urtica dioica	Red Admiral, Comma, Peacock, Small Tortoiseshell
Sorrel or Dock, Rumex acetosa Rumex obtusifolius	Small Copper
Thistles, <i>Cirsium</i> spp. and <i>Carduus</i> spp.	Painted Lady

Planning your butterfly garden...

Plant clumps of larval food plants together.

Aim for year-round flower interest, with early and late sources of nectar.

Only use peat-free compost to help prevent damage to rare habitats.

Delay cutting back in the autumn, tidying borders in later winter instead.

Don't use pesticides: these can affect all garden wildlife.

Planting to attract caterpillars and butterflies

Butterflies love a sunny sheltered garden, with a range of pollen and nectar to attract a variety of visitors sometimes depending on their shape. Many flowers of the daisy family, such as sunflowers and asters, help to attract butterflies and bees with their flat, open tops, perfect for landing. Other flowers in the campion and honeysuckle families have narrow tubular centres, which moths and butterflies may have exclusive access to by making use of their long tongues. Brush-like flowers, like buddleia, also make for good resting places and nectar access.



Common Blue



An ideal butterfly garden would include a wide range of flower shapes, full of seasonal perennials that offer nectar for early arrivals such as brimstones, through to the last red admirals in autumn. You could include an open area for wildflowers and grasses to attract egg-laying females. A site with low soil fertility is ideal.

Nasturtiums are a good bet as they are both a food plant for caterpillars and a nectar resource for adult butterflies and bees! The yellow or orange flowers of Nasturiums are very attractive to bees with long tongues, such as the Common Carder and Garden Bumblebees. Large White and Small White butterflies lay their eggs on the leaves, so they're an excellent plant for those munching caterpillars.



Please allow a corner of your garden to grow wild, let the nettles, grasses & dandelions grow.

If you are able to, please get the iRecord App on your mobile phone or Ipad, it is very easy to use and allows you to photograph your butterfly sightings, this information is very important.







Painted Lady Comma

How to make a Butterfly Feeder

You will need:

- . A large plastic saucer or old lid
- . String
- . Some over-ripe, mushy fruit
- . Some flowerseither silk or real
- 2. Take four equal lengths of string and tie a knot in the end of each. Thread the strings through the holes and tie the four ends together above the feeder.

1. Make four holes around the rim of your plastic lid or saucer making sure they are equally spaced so the feeder isn't lopsided.

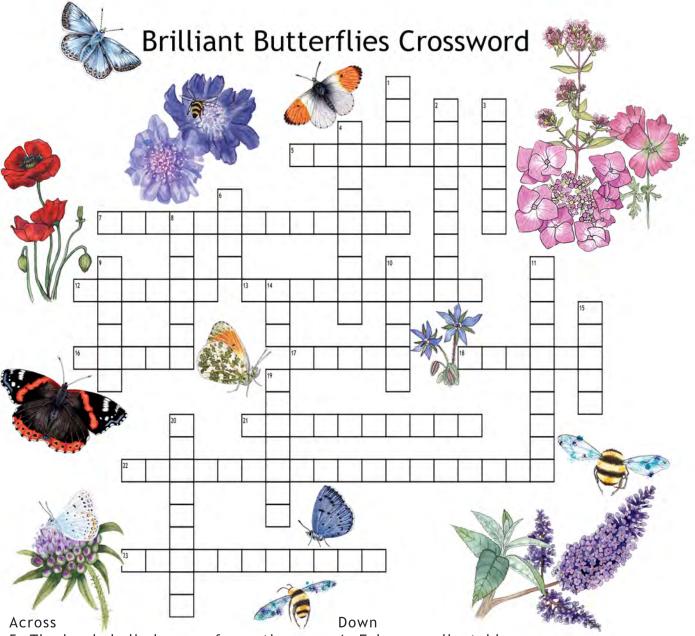


3. Place your over-ripe, mushy fruit on the feeder. Try fruit like bananas, peaches, oranges or strawberries.

- 4. Hang your feeder near some fragrant flowers or attach some brightly coloured silk or real flowers to help attract the butterflies.
 - *Butterfly feeders can attract other bugs too, so place them away from doors and windows and remember to clean them and replace the fruit when needed.*



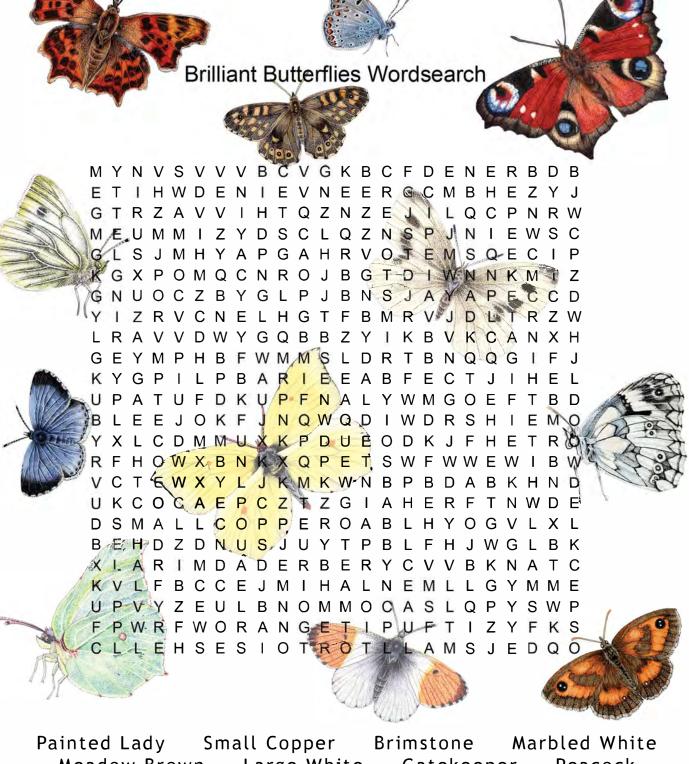
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- 5. The hard-shelled pupa of a moth or butterfly
- 7. Complete change
- 12. Springtime concern for many
- 13. At risk of extinction
- 16. A ragged looking butterfly with orange and brown wings
- 17. The immature, wingless, feeding stage of an insect undergoing metamorphosis
- 18. An area for planting flowers or vegetables
- 21. Mottled military fatigues
- 22. Orange wings, square patches of black, yellow and white along the front edges
- 23. The wormlike larva of a butterfly or a moth

- 1. Faberge collectables
- 2. A small, very bright blue butterfly
- 3. Six legged creature
- 4. The only large, lemon yellow butterfly in the UK
- 6. Night flying insect
- 8. Appendages on the head of an insect to touch and taste
- 9. Silky envelope spun by the larvae of many insects
- 10. Secretion to attract pollinators
- 11. Black butterfly with red fringes to the hindwings, red stripes across the forewings and white markings towards the wing tips
- 14. Butterfly catcher
- 15. Extensions of a main building
- 19. Reddish-purple butterfly with large, dramatic eye-spot patterns
- 20. A white butterfly with a bold orange forewing and light grey wingtip





Painted Lady Small Copper Brimstone Marbled White Meadow Brown Large White Gatekeeper Peacock Red Admiral Small White Holly Blue Orange-tip Comma Ringlet Speckled Wood Small Tortoiseshell Common, Blue Green-veined White



Butterfly Bingo Bash

Holly	Brimstone	Small	Speckled
Blue		White	Wood
Orange	Small	Brimstone	Red
-tip	White		Admiral
Peacock	Meadow Brown	Large White	Comma
Small Tortoise- shell	Large White	Peacock	Orange -tip

Orange -tip	Large White	Small White	Speckled Wood
Peacock	Red Admiral	Comma	Brimstone
Small White	Meadow Brown	Small Tortoise- shell	Large White
Brimstone	Holly Blue	Peacock	Orange -tip

Orange	Meadow	Red	Holly
-tip	Brown	Admiral	Blue
Brimstone	Small White	Small Tortoise- shell	Peacock
Large White	Orange -tip	Brimstone	Peacock
Speckled	Comma	Small	Large
Wood		White	White

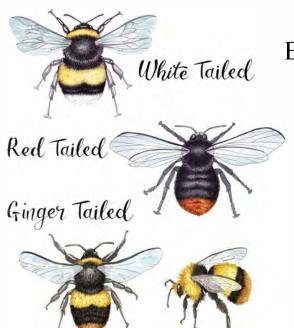
How to play Butterfly Bingo

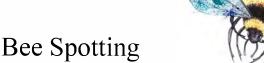
Simply cut out the bingo cards and send them to your friends, family or join a 'Nature Calls' group.

Go out into your garden and over the coming weeks see who can spot enough butterflies to complete a line horizontally, vertically or diagonally or even a full house.

Large White	Small White	Holly Blue	Orange -tip
Peacock	Small White	Brimstone	Red Admiral
Large White	Comma	Orange -tip	Small Tortoise- shell
Meadow Brown	Brimstone	Speckled Wood	Peacock

Small Tortoise- shell	Speckled Wood	Large White	Orange -tip
Red Admiral	Comma	Small White	Large White
Brimstone	Holly Blue	Small White	Peacock
Peacock	Orange -tip	Meadow Brown	Brimstone







We tend to split bumblebees up into different tail colours (white/red/ginger) to make them easier for people to identify. You will find a beautifully illustrated bee poster to cut out and pin to your fridge as well as the Bumblebee Conservation Trusts 'Big 7' poster which shows the most common bumblebees you are likely to see in your garden, no matter where you live in the country.

The following information is from the Bumblebee Conservation Trust and it is well worth visiting their website www.bumblebeeconservation.org if you have access to the internet.

Whether you have a window box, allotment or large garden, planting bee-friendly flowers can help boost your local bumblebee population. In return, they will dutifully pollinate our flowers, crops, fruits and vegetables. No matter what size garden you have, you can do your bit for bumblebees by planting at least two kinds of bee-friendly flower for every flowering period. Beefriendly flowers are rich in pollen and nectar which bees can easily access throughout the year.

The best habitats for bumblebees are those that offer plenty of flowers to feed on during the entire active phase of the bees' lifecycle (from March until October). This will ensure that there is a good supply of pollen at all of the crucial times such as when the queens are establishing nests, when the nests are growing/producing new queens or when queens are fattening up ready for hibernation

Spring	Summer	Autumn		
	Shady Areas			
Lungwort	Wild strawberry	Catmint		
Hellebore	Monkshood	Ground lvy		
Comfrey	Aquilegia	Mahonia		
Winter Heather	Borage			
Sunny Areas				
Crocus	Vipers bugloss	V erbena		
California lilac	Lavender	Sunflower		
Pieris	Foxglove	Cosmos		
Dicentra	Geraniums	Honeysuckle		
Herbs				
Margoram	Thyme	Sage		
Chives	Mint	Rosemary		

You can also use the Bumblebee Conservation 'BeeKind App' which scores your garden on its 'bee-friendliness'. Simply tick which plants and flowers you already have in your garden and it will recommend plants to improve the space for bumblebees and butterflies.

The following charts will help you to identify the various different bees species

The

Common UK bumblebee species





Bumblebees listed by colour pattern

White-tailed bumblebee

Ginger-tailed bumblebee

Red-tailed bumblebee



Tree bumblebee (Bombus hypnorum)

Queen/Worker/Male

Recent immigrant from France. Unique brown, black and white colour pattern. This bumblebee has spread rapidly and is now widespread in England, Wales and Scotland.

Photo: Bumblebee worker



Buff-tailed bumblebee (Bombus terrestris)

Queens and males usually have buff

white, usually with a hint of buff at the

darker/dirtier than in the White-tailed.

tails but workers' tails are largely

front margin. Yellow bands slightly

Queen

As temperatures start to



Worker



Common carder bee (Bombus pascuorum) Queen/Worker/Male

The only common brown bumblebee. Some forms have a very dark abdomen, but others are very light and similar to rarer carder bees.

Photo: Bumblebee worker



Photo: Queen bumblebee by Andrea Finch

Similar to Buff-tailed bumblebee but

White-tailed bumblebee (Bombus lucorum)

Queen

Male



Early bumblebee (Bombus pratorum)

Queen

A common small bee with an orangey-red tail. Has one or two yellow bands and males have a yellow face. Rarely seen after July.

Photo: Male bumblebee by Gordon Mackie



faces and often extra yellow bands. Photo: Queen bumblebee by Andrea Finch

tail always pure white and bands

brighter yellow. Males have yellow





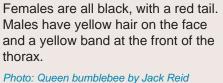


thorax.

Red-tailed bumblebee (Bombus lapidarius)



Male







longer 'horse-like' face.

A very long-tongued species with a

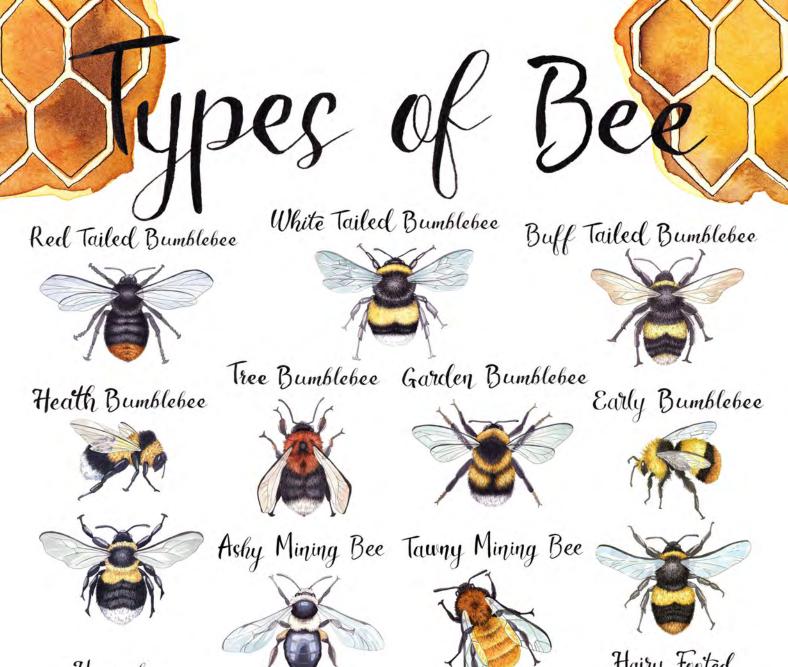
one at the rear of the thorax. Has a

white tail and yellow bands, including





12







Willoughby Leaf Cutter Bee



Common Carder Bee





Red Mason Bee



Rachel Corney Illustration

Hairy Footed Flower Bee









We need YOU!

Please take part in the PoMS insect pollinator count to help the wildlife in your garden

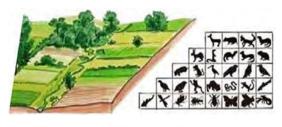
Bees, butterflies and insects are essential for pollinating the flowers, plants and crops, that support all other species including us. As you can see, the loss of hedgerows due to monoculture in the UK has significantly reduced the feeding areas for our pollinators but we can help by ensuring our gardens offer an array of pollinator plants to help create wildlife corridors throughout our villages and towns.

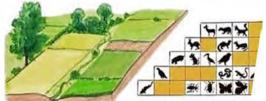
We really need your help to measure the number of bees, butterflies and insects that visit your garden each day. This information is vitally important and will tell us how insect pollinator populations are changing across Britain and what we can do to help them.

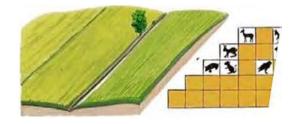
Run by the Pollinator Monitoring and Research Partnership (PMRP) the PoMS Fit Count is a "Flower-Insect Timed Count" which is a simple survey, counting all the insects that visit a patch of your garden during a 10 minute time span.

Please could you spare some to sit in your garden and watch the insects and flowers on warm, dry days between April to September.

The aim of the survey is to collect data on changes in the numbers of flower visiting insects across the UK"







<ck hc Woffmci h'U: `ck Yf! =bgYWnH]a YX fl =HL'7ci bh'

- %' Using the form in this pack, choose any sunny day between April and September, not too windy and with temperatures above 12°C.
- &" Take your 50 cm x 50 cm quadrat with you to the garden, this is a square shape that you can make from sticks, tape or anything else you have available. It can be made using stiff cardboard or wire, or lengths of cane etc or using a 2-metre length of string, with knots tied in at each 50cm interval to allow you to arrange it in a square, or with folded gaffer tape.





Each side of the quadrat can be made from a strip of gaffer tape, about 54cm long (to allow for overlaps at the corners). Fold each strip back on itself so that it is no longer sticky. Cut a small strip of gaffer tape to bind the corners together.



3. Look for a nice flower patch out in your garden, place your Quadrat on the flower patch and count all the open flowers in the quadrat – describe what they look like using the options on the form.

Wherever possible we would like you to find one of the POMS target flower species, these include Hawthorne, dandelion, Nettle, Buttercup, White Clover, Buddleia, Lavender, Knapweed, Bramble, Thistle, Dogwood, Ragwort, Heather or Ivy.

Don't worry if you don't find the target flowers, you can use any other flowering plant that you know the name of which is visited by pollinators.



4. Then count all the insects that visit the flowers during the 10 minutes.



For help with identifying insect groups, use the charts included or if you have access to the internet you can watch a great 8 minute POMS video on the internet – Getting familiar with the FIT count insect groups - https://youtu.be/1Fm1KKiUC8Q

The key features to look out for when you see an insect are its size, hairiness, body shape, how pollen is distributed, eyes, antennae and behaviour in-flight.

- 5. Try to take a photograph of your flower patch as well as any insects you don't recognise.
- 6. If possible, submit your results online, you will need to register with the iRecord online recording system. First you will need to register on iRecord, go to www.brc.ac.uk and click on "Create new account". Once you have logged on to iRecord, you need to go to the FIT Count recording page www.brc.ac.uk/irecord/poms-fit-count. When you enter your findings please use the tag 'GB Bug Hunt'
- 7. There are two other options for sending in your data, you can call someone who is taking part in the 'Nature Calls' group which is a lovely way to discuss your findings or you can send your completed forms by post when you are able to.
- 8. Try to carry out a count in your garden daily if the weather permits to see how the pollinators and flowers are changing but if you'd prefer to do it once a week or once a month, that's great to. All of the data is extremely useful, please note the number of flower heads is likely to change.



There are more forms in the appendix, your can print more forms at home via the internet at www.graduateplanet.co.uk/thegreatbritishbughunt or call Kate Evans on 01789 601496 to receive them in the post. You can send your findings in via the internet or post them to Graduate Planet, Cherry Tree, Church Street, Hampton Lucy, Warwickshire, CV358BE

So go out there, count your pollinator visitors and have fun!

PMS UK Pollinator Monitoring Scheme

FIT Count field recording form

Tag: GB Bug Hunt

A Flower-Insect Timed Count can be carried out at any time of day between the beginning of April and the end of September, wherever a suitable target flower can be found, and when the weather is dry and warm:

- If sky is clear (less than half cloud) the minimum temperature for a count is 13°C
- If sky is cloudy (half cloud or more) the minimum temperature for a count is 15°C

1. About you			
Your name: ☐ I am new to identifying wildlife ☐ I am familiar with identifying some wildlife (e.g. birds or butterflies) but not most pollinating insects ☐ I am familiar with recognising the main groups of pollinating insect ☐ I am confident in identifying the commonly-occurring pollinating insects to species level			
2. Date and location of c	ount		
Date of count:			
Location name:		(e.g.town/village, not full address)	
Grid ref if known (or selec	ct from online map later):		
Habitat (tick one box that Garden School grounds Parkland with trees Churchyard Grassy verge or hedge Grassland with wild flo	row edge owers (e.g. meadow)	☐ Amenity grassland (usually mown short) ☐ Farm crops or grassy pastures ☐ Upland moorland ☐ Lowland heath ☐ Brownfield or other 'waste ground' ☐ Woodland	
Please use one of the 'target flowers' if you possibly can: • Dandelion • Buttercup • White Dead-nettle • Hawthorn • Bramble/Blackberry • Lavender (English) • Common/Greater Knapweed • Heather (Calluna or Erica) • Hogweed • White Clover • Ragwort • Thistle (Carduus or Cirsium) • Buddleja • Ivy (only choose another insectattracting flower if none of the above are available)	☐ Target flowers cover less☐ Target flowers cover ab☐ Target flowers cover model. ☐ Target flowers in patch. I counted: ☐ individual. ☐ flower united. ☐ flow	ss than half of 50×50cm patch out half of patch ore than half of patch ore than half of patch or than half or than half of patch or than half or than hal	
Growing in a larger pa	=	S	













PMS

4. FIT Count Tag: GB Bug Hunt

Once you are ready to start, check your timer so that you can record for exactly ten minutes. Please count **EVERY** insect that you see that **LANDS** on one of your target **FLOWERS** (if you're not sure what type it is just add it to the "Other insects" category). Please try to count each individual insect just once, and try not to lean over the flowers you are watching, as this can cast shadows and prevent insects approaching.

Insect group	Tally of number seen: = 7	7, etc.
Bumblebees		
Honeybees		
Solitary bees		
Wasps (including ichneumon wasps)		
Hoverflies (including 'non- typical' hoverflies)		
Other flies		
Butterflies and moths		
Beetles (larger than 3mm)		
Small insects (such as pollen beetles) less than 3mm long		
Other insects		
5. Weather conditions		
Sky above your	During the 10-minute count, was your 50×50cm patch: ☐ Entirely in sunshine ☐ Partly in sun and partly shaded ☐ Entirely shaded	Wind strength (for all plants in area, not just target flowers): Leaves still/moving occasionally Leaves moving gently all the time Leaves moving strongly

You can also add photos of *examples* of the insects you have seen, but this is optional (please don't take photos during the count as this may disturb the visiting insects).

Hampton Lucy, Warwickshire, CV358BE

Don't forget to **take a photo** of your target flower species, and either **add your counts** to the iRecord form www.brc.ac.uk/irecord/poms-fit-count or post them to Graduate Planet, Cherry Tree, Church Street,



Nature Calls



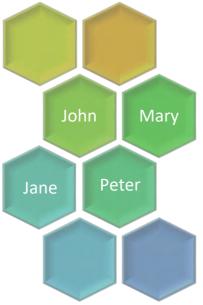
If you are taking part in the FIT Count to measure the creatures in your garden, we would love for you to work as part of a group. This involves 4 people who are self-isolating working with one another to discuss their findings. Its useful to discover the differences across an area and it would really help people who are not particularly technical to be able to send their data in for collection.



If you would like to be part of a nature calls group in your area and talk to other people about your sightings, simply register your telephone number or email address we will you find you a group of 3 other like minded people who would like to hear about your discoveries.

One member of your team may be willing to upload the findings onto the internet, which will save people in your group having to send their data in by post.

This information is hugely valuable and will become part of the PoMS National data, which is helping to support the future of bees and butterflies within the UK.





Working together we can really make a difference

These calls not only help to measure valuable data, they also provide some much needed company for people who are isolating alone. It's wonderful to be able to speak to someone else who is going through the same situation about something so interesting.

If you would like to become part of a group, please call Kate Evans on 01789 601496 or email kate.evans@graduateplanet.co.uk to register your name and telephone number and you will be given the telephone numbers for 3 other people who you can contact on a weekly or monthly bsis, depending on what works for you.

Your can also register online at www.graduateplanet.co.uk/thegreatbritishbughunt

This is a good opportunity to talk about the things you have discovered, support others in their search and maybe forge some new friendships in the process.



Nature Calls Team

If you have decided to become part of a 'Nature Calls' group to talk to other people about your discoveries, you can use the following chart to keep a note of their contact details.

	Team	
Name	Telephone number	Email address
		1

Notes of your discoveries, what did you see, where and when?



How to make a

You will need:

- . Planks of wood
- . Old bricks
- . Straw, hay and dead leaves
- . Hollow bamboo canes
- . Pine cones
- . Woodchips and bark
- . Moss
- . Old terracotta pots
- . Stones
- . Old roofing tiles/slates
- . Cardboard tubes and corrugated cardboard

Bug Hotel



1. Pick a suitable site for your bug hotel. The ground needs to be level and firm. Near a wall or hedge is ideal, but keep it away from vegetable beds! Start by putting down a sturdy base of bricks. Try using an H-shape and leave small gaps between the bricks.

2. Fill the gaps using the materials you have collected. A bottom layer of moss covered with stones and broken pots makes a cool, damp home ideal for frogs and toads. When a layer is finished lay some planks or tiles over the top then put down some more bricks to start a new layer.

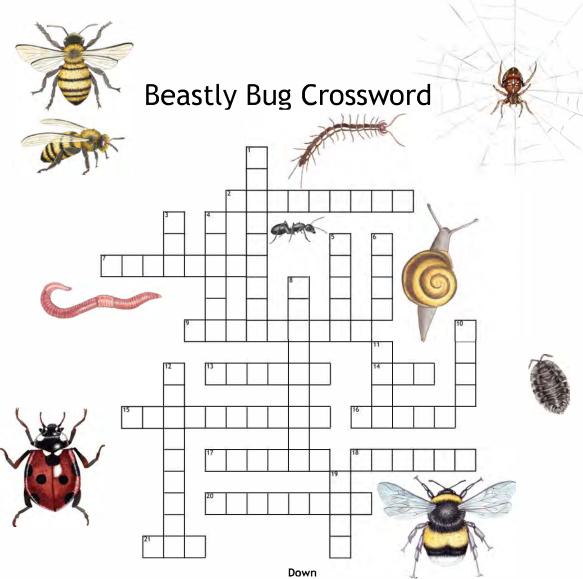


3. Try making layers using dead wood and bark for centipedes, beetles, spiders and woodlice. Hollow bamboo canes are good for solitary bees. Dry leaves, sticks, straw and pine cones are ideal for ladybirds and other insects and cardboard tubes filled with corrugated cardboard encourage lace wings.



4. The idea is to create lots of different cosy crevices for all sorts of bugs. You can build as many layers as you like as long as the structure remains stable. Around 1 metre in height is a good limit. When you are finished 'roof' your bug hotel with old tiles or slates to keep in relatively dry.





Across

- 2. Two pairs of legs on each body segment
- 7. Who ate all the aphids?
- 9. Flying flame thrower
- 13. Eavesdrop insect
- 14. Tiny soldier that makes up 10% of all animal life on earth
- 15. Long leaping beetle
- 16. Common rose bug
- 17. Don't stir up this nest
- 18. Good family game /drive
- 20. Disguised as a wasp I can't sting
- 21. Key to flower pollination



- 1. Stinkbug that produces a strong smell when threatened
- 3. Nuisance in the ointment
- 4. Walk an eightsome
- 5. Epitome of slowness
- 6. Like a train, can travel in both directions
- 8. Cost of the shoes! / Chilopoda
- 10. To the light we go
- 11. Repeated stinger
- 12. Roll up! Roll up!
- 19. Gooey garden pest











E K D G K N D 1 Z S Н E F E D Y E R U E Q Q T K S K 0 R D T N X R D T Y E Z X K D F P A N В M N Z T C S 0 M D E D M R G Α S S A 0 0 R D S В D A EE W D G OV B N M S R X 0 0 N В E C M Ε Ε В D N 0 K R

Red Tailed Bumblebee Ladybird Blue-tailed Damselfly -Garden Snail Honey Bee **Ground Beetle** Weevil Froghopper Cricket Woodlouse Centipede Caterpillar Aphid Millipede Common Wasp Dragonfly Beetle Earthworm Ant Spider Butterfly Earwig Sheildbug Garden Bumblebee

Answers on page

Brilliant Bug Bingo

Simply cut out the bingo cards and send them to your friends, family or your 'Nature Calls' group.

Go out into your garden and over the coming weeks see who can spot enough of them to complete a line either horizontally, vertically or diagonally or even a full-house.

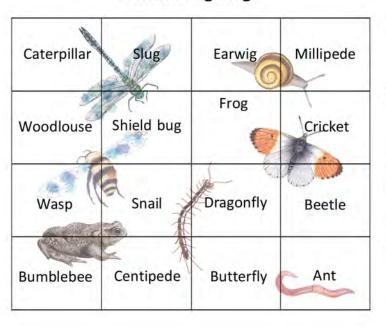
Brilliant Bug Bingo

Ladybird Butterfly Beetle Millipede Wasp Shield bug Ant Caterpillar Dragonfly Centipede Spider Earwig Woodlouse Cricket Slug Snail

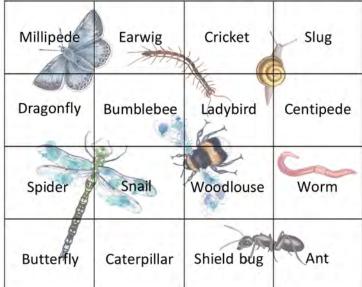
Brilliant Bug Bingo

Butterfly	Snail	Frog	Bumblebee
Caterpillar	Woodlouse	Earwig	Shield bug
Wasp	Dragonfly	Centipede	Ladybird
Millipede	Ant	Slug	Spider

Brilliant Bug Bingo



Brilliant Bug Bingo





Your feathered friends



You will be amazed by the range of birds that visit your garden. A really interesting thing to do if you have a mobile phone or an ipad is to download one of the many free birdsong identification apps. A very simple but effective one is 'Bird Song ID (UK)' which helps you to discover which birds are singing and you quickly learn to recognise them. If you do use one of these apps, it's a great way to play Birdsong Bingo using sound instead of sight.

The following information is from the RSPB website who also offer a great birdsong id page https://www.rspb.org.uk/birds-and-wildlife/bird-songs/what-bird-is-that/

Birds need water for drinking and bathing, most small birds need to drink at least twice a day so water is particularly important during the winter when natural supplies may be frozen and in dry, hot weather during the summer when water can be hard to find.



Water to bathe in is just as important for birds, especially in winter. It is essential that they keep their feathers in good condition and dampening the feathers loosens the dirt and makes their feathers easier to preen. When preening, birds carefully rearrange the feathers and spread oil from the preen gland so they remain waterproof and trap an insulating layer of air underneath to keep them warm.

If you have a birdbath or decide to build/buy one, it's important to keep this clean to prevent birds catching diseases. A layer of algae, dead leaves or bird droppings will soon build up, so give the bath a thorough clean every week or so.

Different birds prefer different foods, so try these different types of food and adapt to what works best in your garden. Avoid all salted foods as they dehydrate birds. Never put out loose peanuts, dry, hard foods or large chunks of bread during the spring or summer months. Parent birds might take these back to their nests and their young can choke on it.

Why not order some good quality feeders and roofed bird tables, which will keep food dry and stop it going off. As a good start, try:

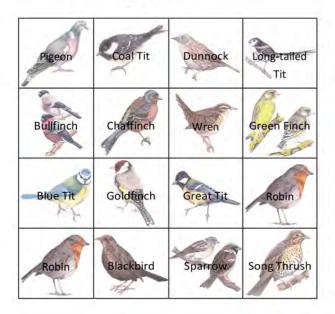
- A hanging plastic feeder containing sunflower hearts for finches, tits and sparrows,
- A hanging mesh feeder with peanuts for tits,
- A hanging mesh feeder with fat balls for tits and sparrows.
- The next step up is a nyjer seed feeder for goldfinches
- A ground feeder or bird table with an oat/fruit/fatty nibbles mix for robins and blackbirds



Once you've got your feeders up in the right place with the right food, sit back with a cup of tea and watch. It's better than any soap opera!

British Garden Birds Blackbird Greenfinch Coal Tit Great Chaffinch Song Thrush Goldfinch House Sparrow ð Bullfinch Dunnock Wren Robin Long-tailed Tit Blue Tit Rachel Corney Illustration

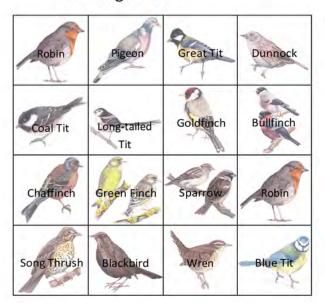
Bird Bingo Bash



Bird Bingo Bash



Bird Bingo Bash



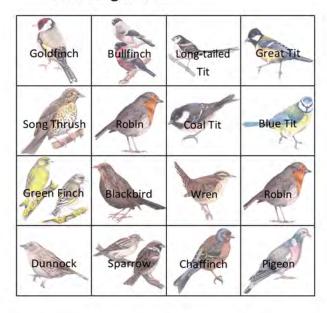
How to play Bird Bingo

Simply cut out the bingo cards and send them to your friends, family or join in with your 'Nature Calls' group.

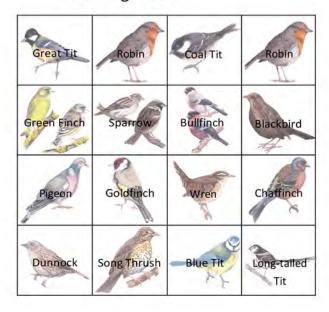
Go out into your garden and over time see who will win the first line or full house. You can win a line horizontally, vertically or diagonally.

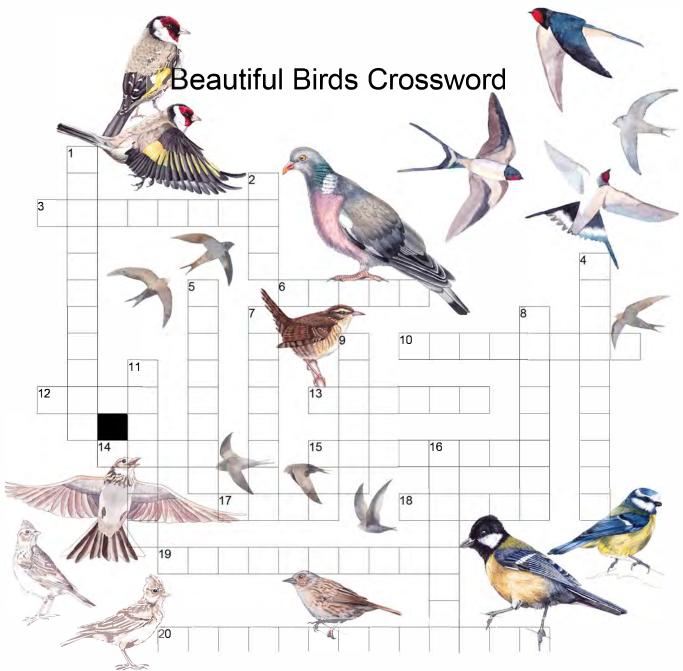
If you use a mobile phone or an Ipad why not download a bird song App called 'Bird Song Identifier UK' and try Bird Song Bingo, it's a wonderful way to discover which birds visit your garden and you will learn to recognise birds calls.

Bird Bingo Bash



Bird Bingo Bash



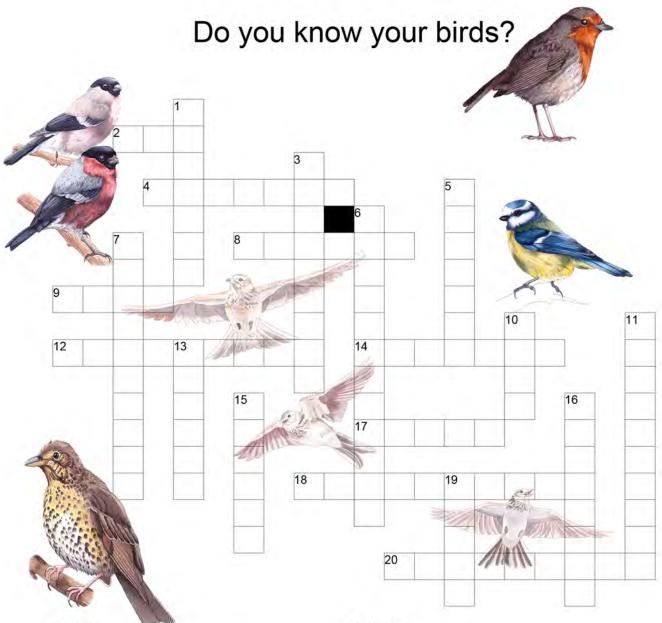


Across

- **3.** A process that birds use to apply oil to their feathers
- 6. Birds and Angels share these
- **10**. Fence of bushes
- **12.** Soft, fluffy feathers that provide insulating undercoat in adult birds
- 13. On the wing
- **14.** Egg container
- **15.** The act of keeping the eggs warm until they are hatched
- 17. In place of teeth, all birds have this structure
- 18. Family Histories
- **19.** Morning song
- 20. A bird expert

Down

- 1. A flock of starlings
- 2. Cake ingredients
- **4.** Colouring and behaviour that make it hard to be seen
- **5.** Watering hole
- **7.** Using the stars, sun, geographical landmarks, and the Earth's magnetic field to
- 8. Pillow filling
- **9.** Group of the same species that nest together
- 11. Many songbirds eat these in the summer
- 16. A film and Sebastian Faulks' WW novel



Across

- 2. A silent hunter of the night
- 4. Watch out for your chips
- 8. Fostered perforce
- 9. Tiny busybody
- **12.** Sand loving bird that lives near the
- 14. Mud and spit under the eves
- 17. Traditional festive bird
- 18. Who's that tapping?
- **20.** Red faced, black hat with yellow and black wings

Down

- 1. A bird with a blue head and a yellow chest
- 3. Bossy Yellow beak
- 5. Black and white runner
- 6. Quarrelsome crowds
- 7. The greenest in all the land
- 10. Symbol for peace
- 11. Brown with a spotted chest, beautiful singer
- 13. A friendly city bird
- 15. Two for joy
- 16. Iridescent copycat
- 19. King of birds





Beautiful British Birds Wordsearch

U S K J W D G N A I L I O V S F O N P K Z W W \ CHXKCOVZHXGUWCOJYEPRDVOX WOYSPWTMLIYTCZGRZCSZIPOS U F A K L K T I T T A E R G S E L V G M A D B H S J K T N B O R L S F O X A C P I Z P K P P EEFMUMXPFIDRIBKCALBHIEM F S W R B U L L F I N C H W A H D Y Q C Y V C Y FPIRBEFWTLONGTAILED TITKX I A C H E J O E G S X W G U K V S Z S C S V E P N R M Q V N T O Y W L Q W Y L Q T H N B O F R W CRFZQOLSMYKCONNUDJSOHRCC H O A E S D J M J A B E Q Q P C V G V A X J B G QWKZFKRJBEJDFCOALTITDSTP D K W I D W Y T N X I U T I A G Z U D H B R H N T C N G U G O X S T V H H W W V S X N P Y E P S P C I B T S J L Y O Z V B C O F C W V P A J E F H N X A F V W I L Q N G L B N A K B U S W Q U P R M M Q P Z R B Q A S G M Q M I L H A P T D H S PHLLENBBTLWNTYKUFNFZTKWJ MYGSHNEMLQSSOHEMINNDTUYR Y P X Z J Y G L H X B X Y T R S W P E V Y Q Z S DWPJMOSFZWGLIXFUIDAEELWN WUBUJBZKJXXTXSNUSMVFRLNK B S J Y H Z X M S U K H W L Y I R H E N F G U M

Wren Dunnock * Owl Swallow Pheasant Woodpecker Robin Goldfinch Chaffinch House Sparrow Song Thrush Bullfinch Long-tailed tit Blue tit Great tit Coal tit Blackbird Greenfinch







Encouraging Hedgehogs into your garden



Hedgehog's are one of our favourite garden mammals. Seldom seen during the day, their nocturnal wanderings take them through several gardens in the evening, where they feed on a variety of invertebrates such as snails and slugs, beetles, caterpillars and worms

They are very good at running, climbing and swimming. In cold winter weather they will go into hibernation, only emerging when conditions are warmer.

Their nests may be quite large, usually made of mosses, grass, leaves and other garden debris. They can be found at the base of thick hedges, under thick bramble bushes, garden sheds or piles of rubbish.

How to make them feel welcome.

Make sure they have lots of thick dense undergrowth and a variety of lengths of grass to hide and nest in. You can also make your garden a hot spot for the slugs, snails and bugs that hedgehogs like to munch on.

You can also try to provide hedgehogs with supplementary food and water. This is particularly useful during periods of drought when natural insect foods may be harder to come by. Their varied diet allows them to eat all kinds of foods we have around the home! **Never feed hedgehogs milk or bread** because they can't digest them it upsets their stomachs. A particular favourite is hedgehog food, complete cat biscuits or meaty cat or dog food.

Hedgehogs like to move from garden to garden and it's useful to help give them openings between boundaries. If your garden is contained by a fence or wall, try to make them a small opening on either side, so that they can easily wander from neighbour to neighbour.

Build a hedgehog home

You can use the following instructions to build your own hedgehog house or you can buy from a whole range of different hog houses online including the RSPB ones https://shopping.rspb.org.uk/hedgehogs/

Whichever path you choose to take, you'll be giving a safe place to nest and shelter to the hedgehogs that share our gardens!

Once you've got your box and you're ready to find a place for it in your garden, out of direct sunlight, with the entrance facing away from prevailing winds. Put it in cover, under thick vegetation for example, or under the garden shed. If you know where a hedgehog has built its own nest in the past, consider putting your new one there, or in a similar environment.

It may take a year for a hedgehog to take up home in your box, resist the temptation to keep removing the lid to check if the box is being used. It's always best not to disturb any potential hedgehog residents.



This is information is from the RSPB website www.rspb.org.uk/ where there is a whole host of information about supporting the bids and wildlife in your garden.

How to make a Hedgehog House

You will need:

- . A wooden crate
- . Lots of sticks and twigs
- . Dry leaves and hay/ straw
- . Old bricks
- 1. Find a quiet, sheltered spot (ideally near a hedge) for your crate. Make sure the entrance faces away from the wind.





2. Cover the crate with sticks. If you put them in a tepee shape they will be nice and sturdy.



3. Pile lots of leaves over your sticks.

Make sure you don't leave any gaps and tuck them in to every nook and cranny, you want your hedgehog to be warm!



4. Place two bricks upright either side of the entane gap then create an archway by placing a third brick over the top of them.

FIT Count field recording form Tag: GB Bug Hunt



A Flower-Insect Timed Count can be carried out at any time of day between the beginning of April and the end of September, wherever a suitable target flower can be found, and when the weather is dry and warm:

- If sky is clear (less than half cloud) the minimum temperature for a count is 13°C
- If sky is cloudy (half cloud or more) the minimum temperature for a count is 15°C

1. About you		
Your name:		
☐ I am new to identifying	g wildlife	
\square I am familiar with iden	ntifying some wildlife (e.g. bi	rds or butterflies) but not most pollinating insects
☐ I am familiar with reco	gnising the main groups of p	pollinating insect
☐ I am confident in ident	tifying the commonly-occurr	ing pollinating insects to species level
2. Date and location of c	ount	
Date of count:		
Location name:		(e.g.town/village, not full address
Grid ref if known (or selec	ct from online map later):	
Habitat (tick one box that	is the best match):	
☐ Garden		lacktriangle Amenity grassland (usually mown short)
☐ School grounds		lacksquare Farm crops or grassy pastures
☐ Parkland with trees		\square Upland moorland
☐ Churchyard		\square Lowland heath
Grassy verge or hedge	-	Brownfield or other 'waste ground'
☐ Grassland with wild flo	owers (e.g. meadow)	\square Woodland
☐ Other habitat type (ple	ease describe):	
0 0 (p		
	3. Target flower (from the	list on the left if possible)
Please use one of the 'target flowers' if you possibly can:		
Dandelion Buttercup	Which target flower have y	ou chosen?
White Dead-nettle Hawthorn	Target flowers sever les	ss than half of 50×50cm patch
Bramble/Blackberry	☐ Target flowers cover ab	****
Lavender (English) Common/Greater Knapweed	☐ Target flowers cover me	• • • •
Heather (Calluna or Erica) Hogweed	- ranger nowers cover m	ore than han or pater
White Clover Ragwort	Number of flowers in patch	1:
Thistle (Carduus or Cirsium)		
Buddleja Ivy	I counted: \square individua	al flowers 🔀 🗖 flower heads
(only choose another insect- attracting flower if none of the		
above are available)	☐ flower u	mbels
Is your 50x50cm patch of	target flowers:	
☐ Growing in a larger pa	tch of the same flower	1
☐ Growing in a larger pa	tch of many different flower	s
☐ More or less isolated		















4. FIT Count Tag: GB Bug Hunt

Once you are ready to start, check your timer so that you can record for exactly ten minutes. Please count **EVERY** insect that you see that **LANDS** on one of your target **FLOWERS** (if you're not sure what type it is just add it to the "Other insects" category). Please try to count each individual insect just once, and try not to lean over the flowers you are watching, as this can cast shadows and prevent insects approaching.

Insect group	Tally of number seen: = 7	7, etc.
Bumblebees		
Honeybees		
Solitary bees		
Wasps (including ichneumon wasps)		
Hoverflies (including 'non- typical' hoverflies)		
Other flies		
Butterflies and moths		
Beetles (larger than 3mm)		
Small insects (such as pollen beetles) less than 3mm long		
Other insects		
5. Weather conditions		
Sky above your location:	During the 10-minute count, was your 50×50cm patch:	Wind strength (for all plants in area, not just target flowers):
☐ All or mostly blue	☐ Entirely in sunshine	Leaves still/moving occasionally
☐ Half blue and half cloud	lacksquare Partly in sun and partly shaded	\square Leaves moving gently all the time
All or mostly cloud	☐ Entirely shaded	\square Leaves moving strongly

Don't forget to **take a photo** of your target flower species, and **add your counts** to the iRecord form (www.brc.ac.uk/irecord/poms-fit-count)! You can also add photos of *examples* of the insects you have seen, but this is optional (please don't take photos during the count as this may disturb the visiting insects).













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1. About you					
Your name:	itifying some wildli ognising the main g	roups of pollina	ting insect		insects
2. Date and location of c	ount				
Date of count:					
Location name:				(e.g.town/villag	ge, not full address)
Grid ref if known (or selec	ct from online map	later):			
Habitat (tick one box that Garden School grounds Parkland with trees Churchyard Grassy verge or hedge Grassland with wild flo	row edge owers (e.g. meadov		☐ Farm crops or ☐ Upland moorl ☐ Lowland heat	land h other 'waste groui	ŕ
Please use one of the 'target flowers' if you possibly can: Dandelion Buttercup White Dead-nettle Hawthorn Bramble/Blackberry Lavender (English) Common/Greater Knapweed Heather (Calluna or Erica) Hogweed White Clover Ragwort Thistle (Carduus or Cirsium) Buddleja lyy (only choose another insectattracting flower if none of the above are available)	☐ Target flowers ☐ Target flowers Number of flowers I counted: ☐	ver have you cho s cover less than s cover about ha s cover more tha	half of 50×50cm alf of patch an half of patch	· ·	
Is your 50x50cm patch of ☐ Growing in a larger pa ☐ Growing in a larger pa ☐ More or less isolated	tch of the same flo				















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Honeybees		
Solitary bees		
Wasps (including ichneumon wasps)		
Hoverflies (including 'non- typical' hoverflies)		
Other flies		
Butterflies and moths		
Beetles (larger than 3mm)		
Small insects (such as pollen beetles) less than 3mm long		
Other insects		
	1	
5. Weather conditions		
Sky above your location:	During the 10-minute count, was your 50×50cm patch:	Wind strength (for all plants in area, not just target flowers):
☐ All or mostly blue	☐ Entirely in sunshine	\square Leaves still/moving occasionally
☐ Half blue and half cloud ☐ All or mostly cloud	☐ Partly in sun and partly shaded☐ Entirely shaded	☐ Leaves moving gently all the time☐ Leaves moving strongly

Don't forget to **take a photo** of your target flower species, and **add your counts** to the iRecord form (www.brc.ac.uk/irecord/poms-fit-count)! You can also add photos of *examples* of the insects you have seen, but this is optional (please don't take photos during the count as this may disturb the visiting insects).













FIT Count field recording form

Tag: GB Bug Hunt



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1. About you			
Your name:			_
☐ I am new to identifying	g wildlife		
$oxedsymbol{\square}$ I am familiar with ider	ntifying some wildlife (e.g. bird	s or butterflies) but not most pollinating insects	
☐ I am familiar with reco	ognising the main groups of po	llinating insect	
☐ I am confident in ident	tifying the commonly-occurring	g pollinating insects to species level	
2. Date and location of c	ount		
Date of count:			_
Location name:		(e.g.town/village, not full addre	ess)
Grid ref if known (or seled	ct from online map later):		_
Habitat (tick one box that	: is the best match):		
☐ Garden		lue Amenity grassland (usually mown short)	
☐ School grounds		lacksquare Farm crops or grassy pastures	
☐ Parkland with trees		☐ Upland moorland	
☐ Churchyard		Lowland heath	
Grassy verge or hedge		Brownfield or other 'waste ground'	
☐ Grassland with wild flo	owers (e.g. meadow)	☐ Woodland	
☐ Other habitat type (pl	ease describe):		
0 0 (p.			_
	3. Target flower (from the lis	t on the left if nossible)	
Please use one of the 'target flowers' if you possibly can: • Dandelion	Which target flower have you	, ,	
Buttercup	willen target nower nave you	a chosen.	_
White Dead-nettle Hawthorn	☐ Target flowers cover less	than half of 50×50cm patch	
Bramble/Blackberry Lavender (English)	☐ Target flowers cover abou	ut half of patch	
Common/Greater Knapweed Heather (Calluna or Erica)	☐ Target flowers cover more		
Hogweed White Clover Ragwort	Number of flowers in patch:		
Thistle (Carduus or Cirsium) Buddleia			
• Ivy	I counted: \square individual f	flowers 🔀 🗖 flower heads	
(only choose another insect- attracting flower if none of the		T	
above are available)	☐ flower umb	bels	
Is your 50x50cm patch of	target flowers:		
☐ Growing in a larger pa	tch of the same flower	'	
Growing in a larger pa	tch of many different flowers		
☐ More or less isolated			















4. FIT Count Tag: GB Bug Hunt

Once you are ready to start, check your timer so that you can record for exactly ten minutes. Please count **EVERY** insect that you see that **LANDS** on one of your target **FLOWERS** (if you're not sure what type it is just add it to the "Other insects" category). Please try to count each individual insect just once, and try not to lean over the flowers you are watching, as this can cast shadows and prevent insects approaching.

Insect group	Tally of number seen: = 7	, etc.
Bumblebees		
Honeybees		
Solitary bees		
Wasps (including ichneumon wasps)		
Hoverflies (including 'non- typical' hoverflies)		
Other flies		
Butterflies and moths		
Beetles (larger than 3mm)		
Small insects (such as pollen beetles) less than 3mm long		
Other insects		
	1	
5. Weather conditions		
Sky above your location:	During the 10-minute count, was your 50×50cm patch:	Wind strength (for all plants in area, not just target flowers):
☐ All or mostly blue	☐ Entirely in sunshine	\square Leaves still/moving occasionally
☐ Half blue and half cloud ☐ All or mostly cloud	☐ Partly in sun and partly shaded☐ Entirely shaded	☐ Leaves moving gently all the time☐ Leaves moving strongly

Don't forget to **take a photo** of your target flower species, and **add your counts** to the iRecord form (www.brc.ac.uk/irecord/poms-fit-count)! You can also add photos of *examples* of the insects you have seen, but this is optional (please don't take photos during the count as this may disturb the visiting insects).













Crossword, Anagram and Wordsearch Answers

Brilliant Butterflies Crossword

23. Caterpillar

Down Across Speckled Wood 11. Comma White Tailed 1. Eggs 14. Net 5. Chrysalis Early Bumblebee 12. Small Tortoiseshell Bumblebee 2. Holly Blue 15. Wings 3. Red-tailed 13. Small White Honeybee 7. Metamorphosis Bumblebee Large White 23. Peacock 3. Insect 19. Peacock 12. Pollen 15. Ringlet Meadow Brown Gatekeeper 24. 4. Brimstone 20. Orange-tip 13. Endangered 5. Hairy Footed Buff Tailed Tree Bumblebee 16. 25. 6 Moth 16. Comma Flower Bee Bumblebee Common Blue 26. 8. Antenna 17. Larva 6. Tawny Mining Bee 17. Holly Blue Skipper 9. Cocoon Green-Veined White 28. Marbled White 7. Brimstone 18. 18. Garden Small Copper Garden Bumblebee Common Carder Bee 10. Nectar 29. 21. Camouflage Painted Lady Orange-Tip Red Mason Bee 22. Small tortoiseshell 11. Red Admiral Red Admiral

Beastly Bug Crossword

Across		Down	
2. Millipede	15.Froghopper	1. Shieldbug	8. Centipede
7. Ladybird	16. Aphid	3. Fly	10. Moth
9. Dragonfly	17. Hornet	4. Spider	11. Wasp
13. Earwig	18. Beetle	5. Snail	12. Woodlouse
14. Ant	20. Hoverfly	6. Worm	19. Slug
	21 Ree		

Beastly Bug Anagrams

1.	Red Tailed Bumblebee	11.	Centipede	21.	Earwig
2.	Blue-tailed Damselfly	12.	Caterpillar	22.	Sheildbug
3.	Honey Bee	13.	Dragonfly	23.	Garden Bumblebee
4.	Ground Beetle	14.	Ant	24.	Ladybird
5.	Weevil	15.	Common Wasp	25.	Harvestman Spider
6.	Froghopper	16.	Spider	26.	Cranefly
7.	Cricket	17.	Beetle	27.	Pollen Beetle
8.	Aphid	18.	Earthworm	28.	Hoverfly
9.	Millipede	19.	Butterfly	29.	Large Black Slug
10.	Woodlouse	20.	Garden Snail	30.	Common Carder Bee

Across Beautiful Birds Crossword Down

3. Preening	15. Incubate	1. Murmuration	7. Navigate
6. Wings	17. Beak	2. Eggs	8. Feathers
10. Hedgerow	18. Trees	4. Camouflage	9. Colony
12. Down	19. Dawn Chorus	5. Birdbath	11. Insects
13. Flying	20. Ornithologist		16. Birdsong
14. Nest			

Do you know your birds?

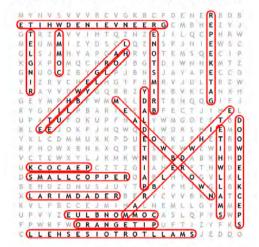
Across		Down	
2. Owl	14. Swallow	1. Blue tit	11. Song Thrush
4. Seagull	17. Robin	5. Wagtail	13. Pigeon
8. Magpie	18. Woodpecker	6. House Sparrow	15. Magpie
9. Wren	20. Goldfinch	7. Greenfinch	16. Starling
12. Sandpiper		10. Dove	19. Eagle

Beautiful Birds Anagrams

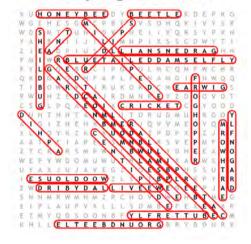
1.	Kingfisher	11.	House Sparrow	21.	Seagull
2.	Blackbird	12.	Common	22.	Puffin
3.	Starling		Treecreeper	23.	Magpie
4.	Bullfinch	13.	Great Tit	24.	Red-breasted
5.	Swallow	14.	Chaffinch		Nuthatch
6.	Barn Owl	15.	House Martin	25.	Greenfinch
7.	Coal Tit	16.	Woodpecker	26.	Song Thrush
8.	Long-tailed Tit	17.	Robin	27.	Dunnock
9.	Goldfinch	18.	Swift	28.	Manx Shearwater
10.	Pheasant	19.	Red Kite	29.	Jackdaw
		20.	Cuckoo	30.	Blue Tit

Brilliant Butterflies Wordsearch

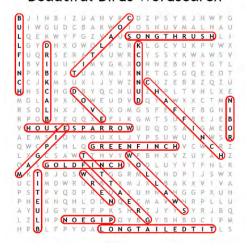
Brilliant Bee & Butterfly Anagrams



Beastly Bug Wordsearch



Beautiful Birds Wordsearch



Thank you for your participation in the Great British Bug Hunt.

Working together, we can make the world of difference to our wonderful pollinators

Please send in your photos and videos of the discoveries you make, you can email them to kate.evans@graduateplanet.co.uk and they will be displayed on the www.graduateplanet.co.uk/thegreatbritishbughunt website or if you use social media you can put them on facebook, Instagram or Twitter, please use hashtag #Bugs&Beasties

Your pictures can win prizes including gardening tools, plants and tickets to the National Trust and the Eden Project that you can enjoy when you are able to roam again.



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Rachel Corney is a very talented artist who specialises in detailed watercolour and ink illustrations. You can see more of her work or contact her at: facebook @rachelcorneyillustration Instagram @rachel.corney www.rachelcorneyillustration. co.uk'



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