## Amazing Transformations by Metamorphosis

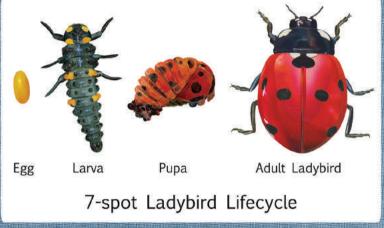
Insects totally transform the way they look a number of times during their lifetime. Take a look at some extraordinary insects and the amazing changes they go through.

#### Complete Metamorphosis

Many insects including beetles flies, ants, moths, fleas and butterflies go through 4 massive changes of appearance during their lifetime.

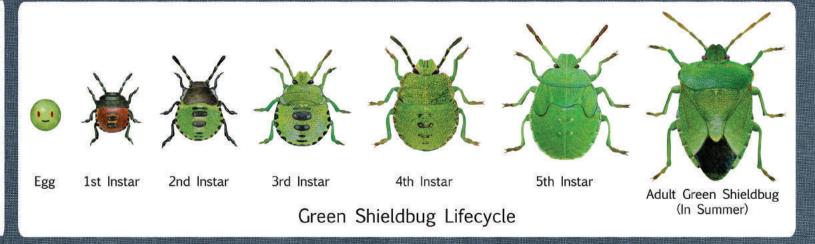
The 3rd stage appears inactive, but inside its outer shell the insect is changing from larvae to adult.





#### Incomplete Metamorphosis

Some insects including bugs, lice, grasshoppers and crickets change appearance many times before adulthood. An insect's hard shell doesn't grow, so when it gets too tight, it splits and sheds to reveal a fresh. larger skin underneath. Each change is called an instar and can look radically different.



## Mini-beast Guide

How many of these cool creatures can you spot?

0 Legs



Snail

Slug





Bug

6 Legs

Insects





Bee



Harvestman

Spider

8 Legs

Arachnids



Tick



Mite

14 Legs



Woodlouse



Pill Woodlouse

more than 14 Legs



Centipede



Millipede



Worm



Beetle

Earwig



Fly

Cricket/Grasshopper



Moth

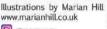


#### Look how many different species of mini-beast are found in Britain!

Snails: approx. 120 Slugs: 46 Worms: 27 Ants: 61 Bugs: approx. 2000 Wasps: over 7000 Beetles: over 4200 Flies: approx. 7000 Bees: approx. 270 Earwigs: 7 Moths: over 2500 Butterflies: 59

Damselflies: 21 Dragonflies: 36 Crickets: 23 Grasshoppers: 11 Spiders: approx. 650 Harvestmen: approx. 25 Ticks: 20 Mites: approx. 300 Woodlice: 65 Centipedes: 61 Millipedes: 83





@marian,hill



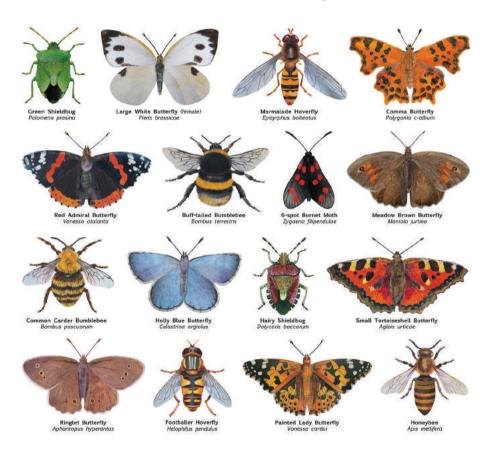


Damselfly

Butterfly

## BRAMBLES

The blackberry fruits of the bramble bush are loved by humans but also relished by many wild creatures. This plant's prickly stems give valuable protection for nesting birds and its flowers are food for many insects.



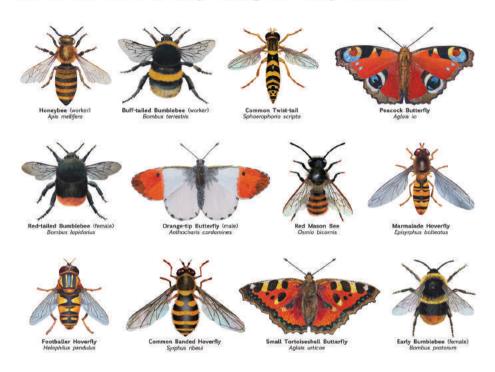
Next time you pass a bramble bush in flower, take a moment to notice how many insects are busily buzzing around it.





# **DANDELIONS**

The nectar and pollen of these cheerful native wildflowers are a vital food in early Spring for many insects.

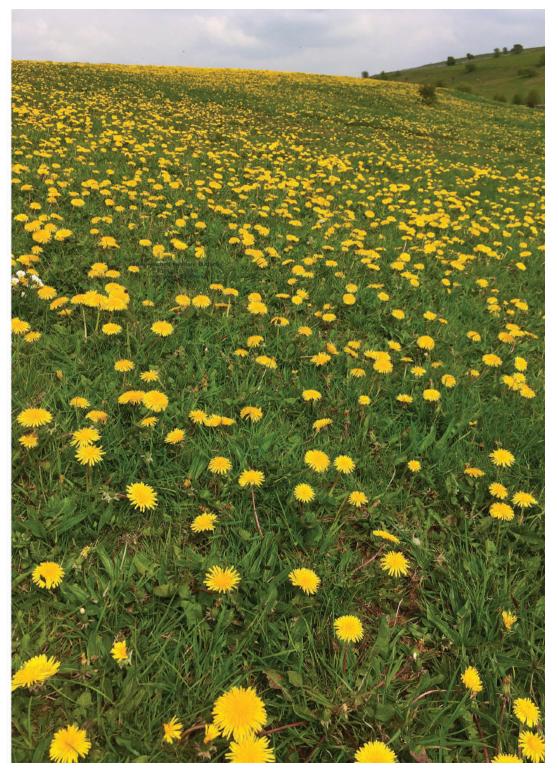


Dandelions help to fertilise top-soil. Their deep roots bring nutrients to the surface, which helps shallow-rooted plants to thrive.

Dandelion leaves are delicious when added to salads and are stuffed full of iron, calcium and potassium.

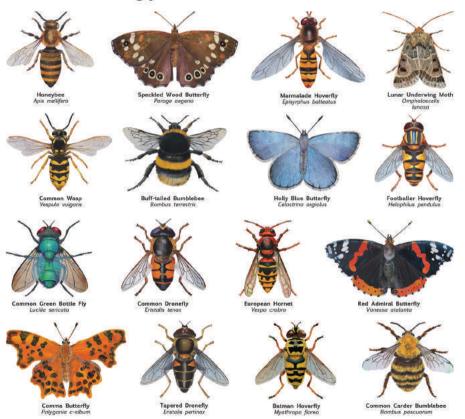
They contain more vitamin C than a tomato and more vitamin A than spinach.





### IVY

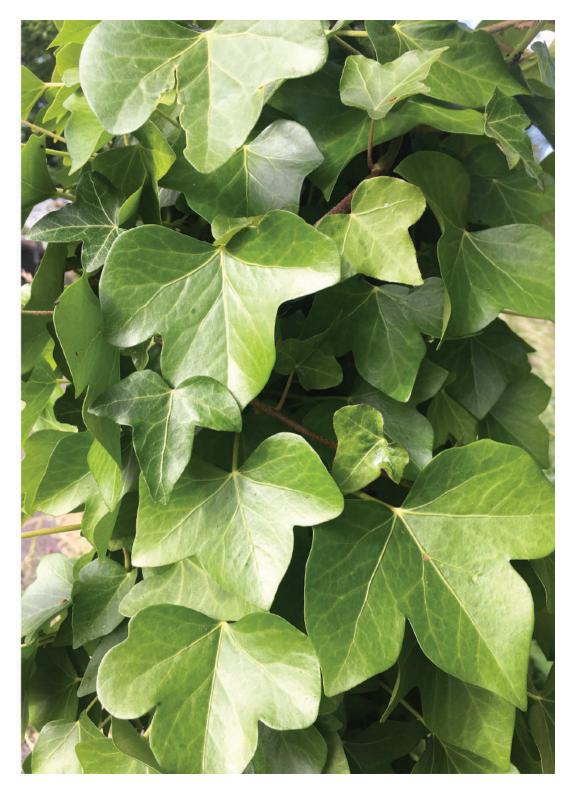
We are used to seeing ivy climbing up old walls, tree trunks and carpeting the ground with its glossy, green leaves. Many people pull down ivy mistakenly thinking it's a parasitic pest plant, but in fact it doesn't damage the plant it creeps over. Ivy offers vital protection for roosting birds and hibernating insects. Its bright autumn flowers provide valuable food for a host of insects and its berries are food for hungry birds.



Let ivy florish and watch it buzzing with insects in autumn!







# MEET NATURE'S 'PEST' CONTROL **EXPERTS**

Many of our common insects love eating slugs, snails, aphids and caterpillars. Please care for these important creatures and try to avoid using garden pesticides which harm them.



















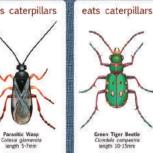
























# MEET NATURE'S WASTE DISPOSAL **EXPERTS**

Do you know that an army of insects is busy cleaning and tidying; processing all kinds of waste, composting dead plants and fertizing soil. The world would be in a real mess without them.

Please help nurture these vital creatures and avoid using chemical treatments which may harm them.































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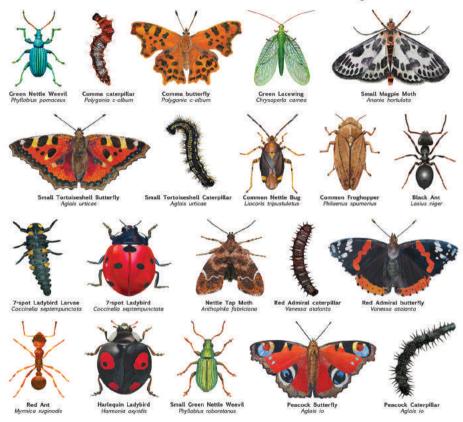






# **NETTLES**

The Stinging Nettle may not be an eye catching plant but it's a home and vital source of food for many insects.



The new leaves of nettles are delicious when made into soup, and nettle tea has been used as a traditional cure for arthritis, back pain, eczema, asthma, hay fever and muscle pain for hundreds of years.

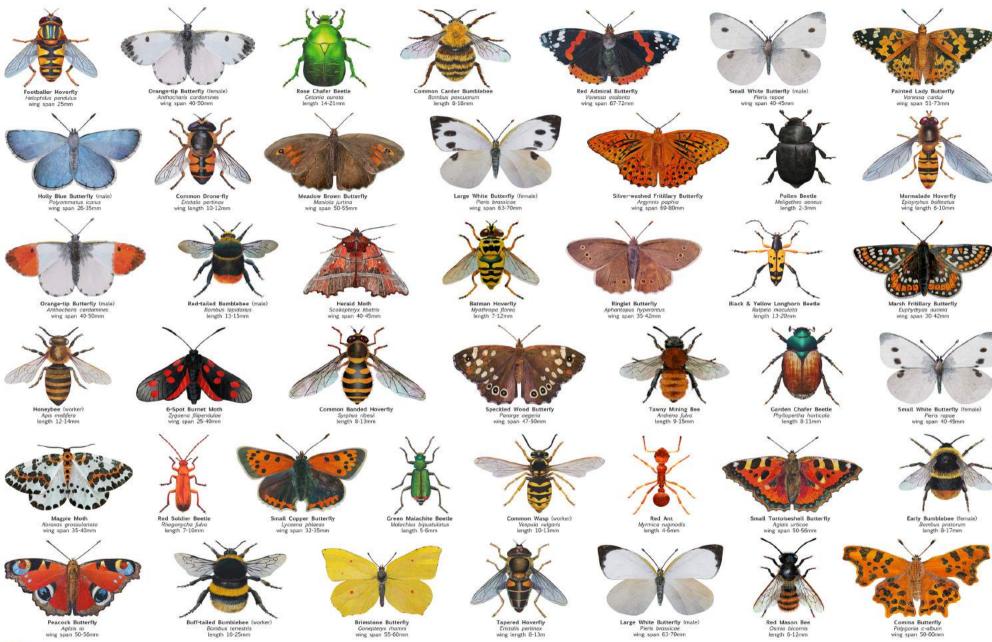
Why not help wildlife and nurture a patch of this very useful plant?







#### Meet the Pollinators Look at all the different local insects which pollinate flowers!





#### Beetles & Bugs of Northern Ireland How many species can you spot?

