

Interplay on the Web!

To get all the latest information about Interplay's range of products, visit www.interplayuk.com



Interplay UK Limited

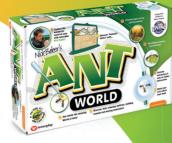
Unit D, Meter House, Fieldhouse Lane, Marlow, Bucks. SL7 1LW

Designed by Interplay UK Limited Made in China

©2009 Interplay UK Limited.

Product Code LW003 v. 2.0

Please retain our address for future reference.



If you had fun with this kit, why not try some of the other kits in the My Living World range.



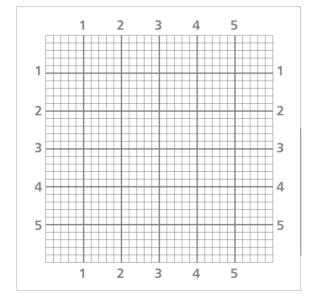














(



Nick Baker's

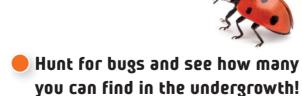
(



Explore the wonderful world of bugs with naturalist Nick Baker!

Designed for children by Nature Experts







www.interplayuk.com





WARNING!



For children over 5 years of age only.

For use under adult supervision. Read the instructions before use. Follow them and keep them for reference.

Not suitable for children under 36 months as this product encourages children to collect small items that may represent choking hazards.

Do not use the magnifying lens to look directly at the sun or other sources of bright light as this could damage your eyes.

If you do put your field lens onto a cord, please take care as this can represent an entanglement / strangulation hazard.





Interplay UK Limited

Unit D, Meter House, Fieldhouse Lane, Marlow, Bucks, SL7 TLW

Designed by Interplay UK Limited Made in China

©2009 Interplay UK Limited.

Product Code LW003 v. 2.0

Please retain our address for future reference.

CAUTION!

None of the accessories in this kit should be allowed to come into direct contact with foodstuffs. Keep bugs and dirty hands away from the mouth!

Wash hands after using this kit or doing the activities described in this booklet.



Welcome to Bug Safari!

Safari is a Swahili (African) word for travel and the dictionary describes Safari as 'a hunting or scientific expedition'.

Most people believe that to go on a safari you actually need to go to Africa and track big game like lions and rhinos. The thing is, you don't really need to travel that far. In fact, you can go on safari in your back garden. You probably won't come across too many giraffe or zebra, but there are millions of fantastic creatures waiting to be discovered right outside your back door! This kit is all about having fun finding and identifying them and discovering what makes them tick.

To help you, we provide proper naturalist's tools; we tell you how to use them to observe creatures safely (for them and you) and we also show you some of the most common types of bugs that are found in gardens, parks and the countryside... the rest is up to you - go and explore and find out what wonderful creatures lurk in the undergrowth!

We really hope you have great fun with this kit, and that it gives you a greater understanding of some of the fascinating creatures that share our world, but please remember to follow the safety instructions carefully.





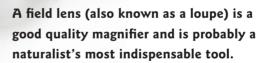


Tools used by professional naturalists

The equipment in this kit was designed by wildlife expert Nick Baker and they are the type of tools used by professional naturalists.







It allows you to observe bugs close up and see details you could easily miss.

It has its own protective casing to protect it from scratches and an 'eye' so that you can thread it with string and wear it around your neck - that way you always know where to find it.

OOLTIP

Keep your Field Lens close to hand. You never know when you'll find something worth investigating

The bug hunter's favourite!

Bug tongs are great for catching bugs, especially if you don't want to get too close. Also, some bugs run, hop or fly away if you get too near so the bug tongs are ideal for creeping up and catching them.

You can use the bug tongs to gently sweep a bug up off the ground or from a leaf or twig.

You should be careful with the creatures you are picking up (look out for delicate limbs and antennae) and make sure you do not damage them. Once you have caught your bug you can transfer it into the magnifying pot to study it.

One word of advice; it's probably best not to try and collect anything that can sting or bite, you'll just make them angry and it will end in tears!



Magnifying pots are the best way to observe newly caught creatures.

When you have caught one, place it in the pot making sure all the legs and wings are in before putting the lid on. Once inside you can study your bug through the built-in magnifier. You will see that the pot is not perfectly round at the bottom — this is no accident; it is because bugs will keep on walking until they find a corner or crevice in which to rest. The two 'corners' in the pot will be where the bugs will stay still so you can study them.

Don't ever leave animals in the pot for longer than you need to, and never leave them in direct sunlight. The magnifying pot is not designed as a home for bugs but for observation only.

OOLTIP

It's best to study your bugs for a few minutes and then return them from where you found them. If they were found on a plant then try and return them to the same plant. This way they should come to no harm for the few minutes you observe them.





Tweezers are also a very useful tool, but be very careful with them, as they can damage small creatures. It's best to use them on larger bugs. Don't ever pick bugs up by their antennae, wings, or legs. Find a part of the body that is hard, like a beetles shell, or the lower body (thorax) of other insects.



O br

Sweep small bugs into your magnifying pot with the paint brush.

Paint Brush

It might seem a strange piece of equipment to put in this kit, but it is a very useful piece of equipment for a naturalist. It's never good to touch a bug because human hands and fingers can harm them. By using a soft paint brush you can gently sweep your bug into the magnifying pot without damaging it.

Graticule

The graticule is the printed grid found on the rear cover of this booklet. It has small squares that have measurements on them and is included to allow you to measure the creatures that you are studying. It also helps to get the correct proportions if you are drawing your bug. To use the graticule, simply place it underneath the magnifying pot containing the bug and start measuring!

Time to explore!

Now that you have some idea of how to use the components in your kit it is time to go on safari in a garden, park, field or woodland.

There are always interesting bugs to find no matter what time of year you look. Even inside your house you can find all manner of beasties worth investigating including spiders, ants and beetles!

NEXT Beetles





Beetles



Soldier Beetle

Found it!









- The Stag Beetle is Britain's largest insect.
- The world's largest beetles live in South America and can be over 17cm long!



Beetles can be found in rotten wood piles and under leaf litter.



All year round mainly in the warmer months.

What do they eat?

Depends on the type of beetle; some are carnivores and eat other bugs, some are vegetarians and eat roots and rotten wood etc.





FNOW?

• The earwigs pincers can give a small nip but are generally harmless.

• The earwig gets its name because it was once believed that they crawled into people's ears at night when they slept.

This is not true!





Earwig



7-Spot Ladybird

Found it!

Lady Birds





2-Spot Ladybird

Found it!

Where do I look?

Look on nettles, thistles or any plant where aphids (greenfly/blackfly) congregate.

When are they active?

Commonly seen in summer months but can be found in winter sheltering in dry crevices.

What do they eat?

Aphids (commonly known as greenfly and blackfly).

Where do I look?

In dark damp crevices, under bark, stones etc.

When are they active?

All year round, most active in summer months at night.

What do they eat?

Decaying vegetable matter and smaller bugs.



Ladybirds are a type of beetle.

• There are about 40 different species in British Isles. The most common type found have either 2 spots or 7 spots.

 Ladybirds taste nasty, this protects them from being eaten by birds.

• Ladybirds are a gardener's friend because they eat bugs that damage plants.

NEXT
Ants & Crickets





• Ants live in colonies and are known as communal insects.

- The total weight of all the ants in the world adds up to more than all the humans in the world
- Ants have the largest brains of all insects.



Some ants can sting or bite...
It is best to avoid touching them.

Ants



Black garden ant

Found it!

Where do I look?

Under stones and slabs. Some species are found in woodland.

When are they active?

Most of the year except when very cold.

What do they eat?

This depends on the species; most ants eat small bugs, seeds and anything sweet. Some ants feed on a sugary substance given off by aphids.

Crickets & Grasshoppers

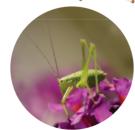
Where do I look?

Grasshoppers are found in grassland and meadows. Crickets prefer thicker vegetation such as shrubs and bushes.

- When are they active?

 During the summer months.
- What do they eat?
 Grasshoppers feed on grass, Crickets
 eat grass and are also carnivorous –
 they will eat smaller bugs.

Grasshopper



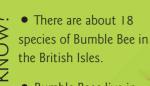
Cricket

Found it!



Found it!

- Grasshoppers can jump over 40 times their own body length. That's equivalent to human jumping 80 meters.
- Grasshoppers and crickets 'chirp' by rubbing their back legs or wings together.
- To tell the difference between a grasshopper and a cricket, look at the antennae; a grasshopper has short antennae and a cricket has long antennae.



• Bumble Bees live in small colonies of about 150 members.

• A Bumble Bee does not die if it stings you, unlike a honey bee.

Bumble Bee



humble bee





In gardens and fields collecting nectar and pollen from flowers.

When are they active? From early spring until autumn.

What do they eat? Nectar from flowers.

WARNING Bumble Bees can sting. Do not touch or try to collect.



Can be seen searching for food to feed the young in its colony. Look where sweet or sugary food is found.



During the summer months, very active in late summer/early autumn.

What do they eat?

Wasps are predators and eat smaller insects. They also like sweet food like fruit.









 Wasps are communal insects and their nests have been known to contain up to 10 000 members

• Male wasps cannot sting. Unfortunately, virtually all the wasps you see are female.

NEXT Butterflies & Moths



Wasps have a nasty sting. Do not touch or try to collect. Under no circumstances disturb a nest if you come across one.



Butterfly

Where do I look? In gardens and fields collecting nectar and pollen from flowers.

When are they active? From early spring until autumn.

> What do they eat? Nectar from flowers.

Cabbage White Butterfly

• There are about 2500 species of moth in Britain.

 Moths hold their wings flat across their back. Butterflies hold their wings straight up.

 Moths and butterflies cannot. bite as they have no mouth-parts.

Peacock Butterfly

Found it!







Found it!

• There are 55 native species of Butterfly in the British Isles.

• It is said that for every butterfly you see today you would have seen 100,000 a century ago.

• Butterflies fly in daytime, moths mainly at night



Anywhere outside late evening or at night in the summer. They are attracted to electric lights.

When are they active? Most active in the warmer months

What do they eat? Nectar from flowers



Moth

Hoverfly

Where do I look? Anywhere where there are flowers.

When are they active? All year but are dormant in colder months.

What do they eat?

Adults eat pollen and nectar from flowers,

larvae eat aphids.

Hoverfly



Crane-fly

Found it!

Crane-fly

Where do I look? Grassy areas, gardens, parks and fields.

When are they active? lune to October.

What do they eat?

Larvae eat roots and rotting plant material, Adult crane-fly do not eat.

• Crane-fly are also known as 'Daddy Long Legs'.

• Adults only live for 2 weeks.

• The young are called 'leatherjackets' and live underground.

NEXT Centipedes & Millipedes



Found it!

• Hoverflies are a gardener's friend; their young eat insects that damage plants.

• They look like wasps to protect them from predators but they can not sting





• Centipedes do not have 100 legs as their name suggests. Depending on the species they generally have between 30 and 70 legs.

- They are very fast runners.
- They have sharp poisonous fangs. Watch out! Large centipedes can give you a painful bite. Use the tweezers if you are going to pick these beasties up.

Centipede



Centipede

Found it!





- Where do I look? Under stones, logs and flower pots and other damp shady places.
- When are they active? Throughout the year.
- What do they eat? Unlike centipedes, millipedes are vegetarian and eat dead plants, rooting wood etc.





Where do I look?

Under stones, logs and flower pots and other damp shady places.

When are they active? All year although they are easier to find in the summer months

What do they eat?

Centipedes are fierce predators and feed on bugs like slugs and woodlice.

- Millipedes have up to 750 legs depending on the species.
- They are harmless and cannot bite.
- They are much slower moving than centipedes.
- They are protected from predators because they give off a nasty tasting chemical.









Found it!







House spider

Spiders

Where do I look?
Spiders are seen in almost every type of habitat.

When are they active?
They can be active all year round.

What do they eat?
Insects and small bugs.



Garden spider

Found it!

- Fear of spiders is called arachnophobia and is one of the most common fears among humans.
- There is no British species of spider that can cause any harm to humans.
- Weight for weight spider's silk is twice as strong as steel.
- Spiders have 48 'knees' (each leg has 6 joints).
- In the wild it is estimated that there are 5 million spiders per hectare. That is 500 spiders per square metre!

NEXT Slugs & Snails







Found it!



Snai

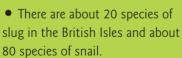


Slugs and Snails

Found it!







- Slugs and snails are very similar except snails have shells.
- Slugs and snails can eat about twice their body weight in a day.
- They can live up to 6 years.



Where do I look?

In dark moist places under logs, stones and flower pots.

When are they active?

All year except when freezing.

What do they eat?

They feed on leaves and young plants and are seen as a pest by gardeners.



• Worms are extremely important for the world's ecosystem - their constant burrowing allows air and water to penetrate the soil. They break down decaying vegetation providing an important source of food for plants. Worms are also a vital source of food for many creatures including moles, birds hedgehogs and badgers.

• Under the ground it is estimated that there are approximately 750 worms per square metre!

• In Australia there is a giant species of worm that can grow to over 3 metres in length!



Woodlice

Found it!



Woodlice

In dark damp places, in rotting wood under stones etc.

When are they active?

All year round.

What do they eat?

Decaying plant matter.

Worms

Found it!



Where do I look?
In soil, under the ground and in compost heaps.

When are they active?
All year round.

What do they eat?
Decaying plants found in soil.



Woodlouse

Do You KNOW?

- There are 46 species found in the British Isles.
- Sea creatures like crabs and lobsters are distant relatives of woodlice.

NEXTFurther reading





More Information



This kit provides a very basic introduction to some of the creatures that are commonly found throughout the British Isles. The great thing about the natural world is that there is always something new to discover and there are still so many questions yet unanswered. So if you would like to take your interest further, see our list of recommendations.

GOODREADING

The Readers Digest Field Guide to The Butterflies and Moths and Other Insects of Britain

(Readers Digest)

Comprehensive, easy to read book with beautifu illustrations... highly recommended.

Nick Bakers Bug Book by Nick Baker (Collins)

An excellent book crammed full with fascinating bug facts and activities... highly recommended fo naturalists of all ages.

Collins Complete British Insects

by Michael Chinery (Collins)

A comprehensive guide to British insects.

British Wildlife (Collins)

Easy-to-use photo-guide to discover the natural world.

Illustrated Keys

(Field Studies Council – www.field-studies-council.org)

These easy-to-use illustrated keys are fantastic and lightweight, contain lots of information. There are a huge range of subjects covered.







Bug Life – The Invertebrate Conservation Trust:

lots of conservation projects on the go. www.buglife.org.uk

The Amateur Entomologist's Society

related events. www.exeter.ac.uk/bugclub

British Naturalists' Association

Also has a kids club. www.bna-naturalists.org

The Wildlife Trust

www.wildlifetrusts.org



DON'TFORGET

Always return your finds to their natural habitat.

Enjoy your Bug Safari!







