Helping your children choose books they will love



Lovereading4kids.co.uk is a book website created for parents and children to make choosing books easy and fun

Opening extract from Bug Detective Amazing facts, myths and quirks of nature

Written by Maggie Li

Published by

Pavilion Children's Books an imprint of Anova Books

All Text is Copyright © of the Author and/or Illustrator





DUNG HOME

Er way alive straight into the

BIG BEE 17cm and can shap a

The Titan beetle

can grow as big as

144

Dung beetles are nature's recyclers: they roll dung into balls which they eat later. Without them the earth would be piled high with manure





SAMILY

HER.

Auntic Dot Grandma Glow Cousin Wilbur

VELLING BEETLES

dergraund network of tunnels

But which one's which? Can you match the beetle to their catego

ousle verse person pulling

Aresting fine jelf

DUNG BABIES



Dung beatles lay eggs in their dung. Their babies hatch inside then eat their way out of it



A: All 3. . they can live almost anywhere, just so long as they carrent!

which of these beetles looks like

Which of the right environments

BEETLES

There are more species of beetle than any other creature on the planet and they live in all continents apart from Antarctica, How extraordinary. So get moving and see how many different kinds you can find in your own garden or local woods.

Life

vcle

Pupa

BAD EYES

Beetles can't see very

They find things using ton't Our friend or by feeling ubrations Slow friend the dung beetle also uses the slow from the stars to find its uses

Larva



Many beetles are armed with fierce-looking horns and pincers. The bombardier beatle creates its own mini explosion from its backside, firing out a boiling hot fluid LITTLE TOUGH GS at its would be attackers!

EWINGS



WORMS

Hatchings

When worms come to the surface they become vulnerable to predators Earthworm-like creatures have been around for at least a billion years and are one of nature's most useful creatures. They also have some pretty amazing tricks up their sleeve: they help plants grow, they can move without legs and can even survive being cut in half! Find out why they are so good to have around in your garden and just why they are so slimy.

Worms hatch from cocoons

10000

MYTH BUSTER

Many people think that if a worm is cut in half it becomes two worms. This is not true. Only the end with the head will survive Worms can live between 4-8 years!

Life

Lucie

You can find a million worms in an acre of land

...

An ant's skeleton is on the outside of its body instead of inside. This 'exoskeleton' protects the ant like a suit of armour

GHTS IN SHINING ARMO

EAMWORK

Ants are great at have to be candid though: have to be candid though: basis facts and as antentors love eating ants! teamwork. They can They have to be careful though. join together and turn themselves into a 'raft' to escape big puddles, or climb on top of one another so they can reach up high

They may be tiny but if you weighed all the ants in the world they would weigh more than all the humans!

THE ANT GYM We and carry things many bines

at an ant you could lift

Most ants build a nest to live in. Inside there are lots of chambers rooms connected by tunnels. The rooms are used for different things, like storing food, sleeping, or as a nursery. There's even a special chamber just for the queen

HERDERS

ANTS NEST

WY FARMER





Ants are very clean and tidy. They even take their rubbish out like we do!

ANTS *****************************

They might be tiny but ants are mighty insects! With super human strength ants work together as a team to build and maintain their homes. Ants are social beasts and live in large groups called colonies, just like you and me, and our families. Next time you go outside have a look at the ants and see if you can follow their trail!

Eggs

Life

Cycle

Pupa

Some ants herd caterpillars, just like a farmer herds cows. They take them out in the day to feed on leaves, then keep them safe in the nest at night. In return the ants 'milk' the caterpillars for their delicious honeydew

GTRL POWER

Ants have been farming even longer than humans least-cutter ants bring aves back to their nest and arow fungi on them to feed the colony All worker, soldier and queen ants are Ands have been forming even longer than humans lead the colony leaves back to their nest and grow hung on them to feed the colony Female. The male ants usually only live has a chough to mate with the queen and then they are

Ants have extra strong legs so they can run really quickly. If you could run as fast for your size, you would be as fast as a racehourse!

TONSHIP RUNNERS



BEES

Bees are amazing! They are essential to the

enviroment and help plants and flowers grow

through a process called pollination. They also

produce something we humans can eat, honey!

Bees live in colonies which are like families

and are ruled over by a queen.

When a bee looks at a Rower to see special little landing stors that guide it to the nector





Adult

Life Cycle

in a kive, she is so busy laying eggs shar she has no time for any chores

The 'processor' bees fan. the honeycomb by flapping their wings. This helps dry out the nectar and turn it into delicious honey BUSYAS

Making honey doesn't come easy - to make a single jar of honey & live of bees would need to visit 2 million flowers

BUG DETECTIVE ACTIVITIES

Now you know a little more about the weird and wonderful lives of bugs it's time to put your bug detective skills to the test. With your magnifying glass you can discover a world of activity that you've never seen before. So put on your wellies and head into the garden to see what you can find. Tread carefully and leave no leaf unturned!

GO ON A BUG HUNT!

Where to look

VACANCIES

The best place to look is under things - leaves, stones, plant pots and logs. Bugs also like to hang around flowers, trees and plants. Remember, some bugs are very good at camouflage so you'll need to look up close. Don't forget to be as quiet as you can so you don't scare them away and be careful not to squish them!

Remember to set your newfound friends free after you've inspected them!

- What you need * Magnifying glass * Glass or plastic jar * A wooden spoon
- * Notebook and pen

Top Tip!

BUG DETECTIVE FINDINGS

Name of bug:

Where I found it:

Description:

Bugs lave sweet things, Try mashing up a bit of banana mixed with sugar then spreading onto a tree trunk. Wait a few hours then see who's turned up for dinner!

MAKE A BEE HOTEL

Bee numbers are in decline which is not just bad news for honey monsters. One in three mouthfuls we eat is the result of an insect pollinators' work so dinnertime really would be boring without them (imagine no apples, strawberries or tomatoes)) You can lend a hand by giving the bees somewhere to rest. their weary wings and lay their eggs in the long winter months.

& Bundle together some hollow plant stems like bamboo and cow parsley

2. Tie them together with some string

3. Hang the hotel in a sunny, sheltered spot, at least 1m from the ground

4: Now watch and see who drops by! As well as bees, the odd ladybird and other insects may pop in

5. Keep an eye out for the tiny mud doors covering the entrance holes. This means a female bee has laid an egg inside.

WORM V SNAIL Set up a race between these two slimy plodders and see who can out-slow the other! Who do you think will win?











STEP 4 - WORM HUNT! Time to find your new tenants. Try digging in the soil just after it rains. Worms prefer things moist so wet your hands before picking them up STEP 5 - Add the worms then cover with

kitchen roll and secure with an elastic band to stop the worms wriggling away

CATERPILLAR HOUSE

Make a comfy home for a caterpillar using an old egg carton. Find some nice green leaves for it to munch on, then add lots of soft moss and grass to make it nice and cosy.









MAKEA WORM FARM

What better way to watch these wiggly creatures up close than to build your very own worm farm.

STEP 1 - Cut the tops off the plastic bottles (better still, ask a grown up!)

STEP 2 - Put the small bottle, upside down, inside the big bottle. This will make it easier for you to see the worms' trails

STEP 3 - Alternate layers of sand, soil and leaves, then top with some vegetable peel. coffee arounds or tea leaves.

What you need * Two clear plastic bottles (one big one, one small one) * Sand * Soll. * Leaves * Vegetable peel

STEP 6 - Wrap a sheet of black paper around the bottle. Worms love the dark and this will help them get settled in

STEP 7 -- Leave in a cool dark place for a couple of days (remember to water it every now and again so the worms don't get thirsty)

STEP 8 — Take off the black paper and watch the worms as they mix the soil, build tunnels, munch up the food and even have bables!

Remember to set your worms free after a few days. The lovely fuffed up soil can be used in your AR two garden to heip the

MAKEA LADYBIRD

Turn a simple stone into your very own ladybird, Find a nice flat pebble, then paint. on the colourful red shell and black spots (acrylic paint is best)



Use this handy guide to figure out who's who in the bug world.

INSECTS have six legs, a body in three parts and usually wings (beetles, ants, bees and butterflies

ARACHNIDS have eight legs and a body in one or two parts (spiders and scorpions)

MYRIAPODS have a head, segmented bodies and lots and lots of legs (certipedes and millipedes)

ANNELIDS have long wriggly bodies in lots of segments, but no legs (the gardener's friend, the earthworm)

GASTROPODS have squashy bodies in one part and some have a coiled shell (snat's and slugs)

BU