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Opening extract from

Bug Detective Amazing facts, myths and quirks of nature

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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.

BAD EYES

Beetles can't see very

Many beetles are armed

LITTLE TOUGH GIT

They find things using took of the stand or by feeling ulbrains sound or by feeling ulbrains from the dung beetle also uses home.

with fierce-looking horns and pincers. The bombardier beatle creates its own mini explosion from its backside, firing out a boiling hot fluid

at its would be attackers!

Which of these beetles looks like Which of these prefies loo A: All 3... they can live almost anywhere, just so long as they carreat!

fireflies and the long-necked giraffe weevil of Madagascar!





Beetles come in all shapes and sizes, and include ladybirds, glow-worms,





derground network of tunnels

Dung beetles are nature's recyclers: they roll dung into balls which they eat later. Without them the

DUNG HOME

earth would be piled high with manure

The Titan beetle

can grow as big as (7cm and can shap a

pencil in half with its

enormous jaws!

DUNG BABIES

Dung beetles

lay eggs in their dung.

Their babies hatch

inside then eat their

way out of it

Can you match the beetle to their catego

ousle person pulling

Bur which one's which?

WORMS

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 don't have lungs, they breathe through their skin. The mucus that covers their skin helps breathing easier... That's what makes them so slimy

Norms make a tasty treat for bridge jornib moles, beetles and slings

> Worms can have up to 5 hearts!

Worms have no arms and legs. Their bodies are covered in small bristles, which it uses to move and burrow

Worm poo is full of nutrients and is great for the garden

Worms

tunnel in

the ground

mining soil

which helps

plants grow

Worms come to the surface when it rains so they won't drown. That's the best time for you to go on a worm hunt!

organic waster coil and day

MISSIO,

Why not start your own worm farm and watch them wiggle and tunnel their way through the soil

The longest worm is the African giant earthworm which can grow to nearly 7m long!

into each other all the time

Worms hatch from cocoons

MYTH BUSTER

When worms

come to the

surface

they become

vulnerable to

predators

Many people think that if worm is out in half it becomes two worms. This is not true. Only the end with the head will survive

You can find a million

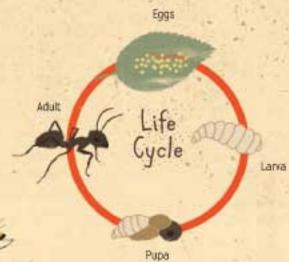
Worms can live between 4-8 years!

worms in an acre of land



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!



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.



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

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

BUG DETECTIVE FINDINGS Where I found it:



Top Tip! 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.

- 1 Buridle 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

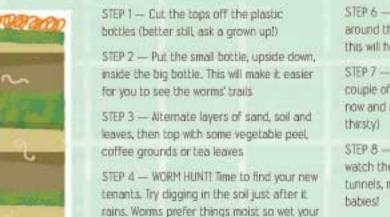
Set up a race between these two slimy plodders and see who can out-slow the other! Who do you think will win?





MAKEA WORM FARM

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



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

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

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

Remember to set your worms free after a few days. The lovely fluffed up soil can be used in your garden to help 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.

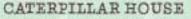
INSECTS have six legs, a body in three parts and usually wings (beetles, ants, bees and butterflies

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 (centipedes 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 (snals and slugs)



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.









