Feeling Inspired about Arable? Why not tell us what you have discovered? We would love to see what you

have found. Share your photos on social media tagging @naturebftb and @love_plants, email colourinthemargins@plantlife.org.uk or log it on iRecord.

Do you want to know more?

You can find lots of resources about arable wildlife, for all ages and abilities, at plantlife.org.uk. Try developing the skills you have learnt by downloading the Rare Arable Flowers App.



Who are farmer's friends?

Farmer's friends are beneficial invertebrates that help

Invertebrates are animals that do not have a backbone.

They come in all shapes and sizes, and live pretty much

understand how important and diverse they are.

They are the largest group in the animal kingdom.

Here are some of the different body shapes

to get you started on your Bugology journey:

What is an invertebrate?

anywhere that you can imagine.

of all animals are

invertebrates!

pollinate plants, improve soil health for growing crops and

can help control other species which may have a negative

effect on crops. Watching them in arable fields can help to

Colour in the Margins

We are a Back from the Brink partnership project working to conserve the wildlife unique to arable farmland.

We want to raise the profile of England's threatened arable habitat by inspiring people to discover and celebrate it with us!

Find out more by visiting naturebftb.co.uk

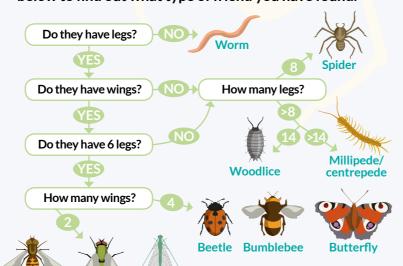




Count the number of legs and wings?

Farmer's friends are invertebrates. Some have no legs, but generally they have six, like bumblebees and beetles, eight legs like spiders or many more legs like woodlice and millipedes.

Look around the habitat you are in and use the chart below to find out what type of friend you have found.



Hint: Ladybirds and other beetles are flying superheroes! They actually have 2 pairs of wings!

House Fly Lacewing

Can you think why having lots of farmer's friends makes a farmer happy?

Hoverfly Hunt

Hoverflies are the unsung heroes of our countryside - they are super multi-tasking invertebrates! Adults are really good pollinators and some larvae are fast-munching

There are over 280 different species of hoverfly, many of which look very similar. On your wander through arable fields, find a sunny patch with some flowering plants

Have a go at counting how many you see.



Did you know

Predatory hoverfly

larvae can eat

up to 1200 aphids

in 6 weeks!

Hoverflies

can look verv

similar to other

flying invertebrates.

Can you think of

any others that

are similar?

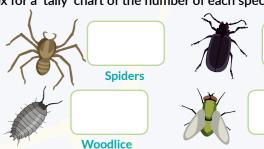
Long Hoverfly



Great Pied Hoverfly

REMILIAND A REMILIANDE **How Many?**

Decide on a stretch of path where you are going to investigate what invertebrates you can find there. Can you see any farmer's friends like those below? Why not try counting how many you can see? Use the box for a 'tally' chart of the number of each species.



Did you find anything different?

Draw a picture of it here and fill in where you found it and what it was feeding on. If you don't know what

| aneu, give it a new | name. |
|---------------------|-------------------|
| | Invertebrate type |
| | No. of body parts |
| | No. of legs |
| | Name |
| | Favourite food |
| | Lives in |









Bugology

The study of insects

or other bugs.

Also cool name

for entomology

(en·tuh·mo·luh·jee)!!



















aphid predators.

and take time to look for these.







Marmalade Hoverfly

Tiger Hoverfly





of segments

Who are the beneficial friends?

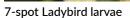
Different species of invertebrates do specific jobs. Groups of farmer's friends are called **Predators**, **Parasitoids**, **Pollinators** and **Composters**.

While wandering around arable fields use the images below to try and find the same or similar looking species.

Predators

Predators consume the adults and larvae of other invertebrates that live on an arable farm that can damage crops.







Common Lacewing



Mellet's Downy-back Beetle



Red-legged Robber Fly

Parasitoids

Parasitoids prey on the larvae of 'pests' and basically eat their way out of the other insect which kills the pest.



Rove Beetle



Parasitoid Wasp



Ichneumon Wasp



Platygaster species

Pollinators

Pollinators come in all shapes and sizes and help plants to reproduce, encouraging seed production.



6-spot Burnet Moth



Thick-legged Flower Beetle



Tiger Hoverfly



Common Wasp

What do they actually do?

The following examples will help you to understand their role on your Bugology journey.

While you are out and about why not stop at some flowers or plants, take time to observe and see if you can record any live action!



Aphid Eaters - predatory ground beetle likes to munch on cereal aphids in crops.



Pollen Transporter - Bumblebees are important pollinators carrying pollen between plants of the same species.



Body Snatcher - Rove beetle parasitise Bean Seed Flies!



Cool Composters - worms eat decaying matter, improving soil for healthy crops.

Can you spot the difference between the species below and identify which group they belong to?

Draw a line to match the group to the image:

Shieldbug

Beetle

Fly

Bumblebee

Composters

Composters live or overwinter in the soil, eating detritus and breaking down organic matter.







