## The Book of Brilliant BUGS JESS FRENCH

## EXPLORER PACK

 FOR AGES 7-9
## THE AIM

## This Explorer Pack can be used with

 children either in the classroom, shared outdoor space, or at home.It includes a series of activities, all themed around The Book of Brilliant Bugs, the beautiful and colourful new book by children's TV presenter Dr. Jess French.

You can dip in and use as many of the activities as you like with children to help them think about the world around them in lots of interesting ways.

The overall objective is to give children the opportunity to explore the natural world, to engage with the endless wonder of the gardens on their doorsteps, and to develop empathy for the creatures that they find there.


We'd love to hear about how you're using these resources in your classrooms and libraries. Please share your photos and stories with us online!

Tag us @dkbooks and use the hashtag \#TheBookofBrilliantBugs

## ABOUT THE BOOK

## Enter the kingdom of bugs and their close relatives for a magical journey through the forest floor, down into the deepest caves, and even across the open ocean.



Insects, arachnids, worms, and molluscs are crawling across the pages of this colourful bug book, which combines gorgeous illustrations and photos to help young animal enthusiasts spot and learn all the main bug groups.

From dancing bees to cartwheeling spiders, from butterfly athletes to the beetles that eat poo, they'll learn all about the incredible secret world of creepy-crawlies. And they'll find out how bugs help to look after our planet too.

The Book of Brilliant Bugs, written by insect expert Jess French and illustrated by Claire McElfatrick, takes children on a fascinating journey of exploration, showing them just how amazing creepy-crawlies are, what they do for our planet, and how we can help them.

It includes bug relatives such as slimy slugs, web-spinning spiders and scuttling centipedes, plus amazing facts on how bugs pass on messages, compete for food, seek true love, and fill the air with buzzing wings.


## EXPLORER PACK ACTIVITIES INCLUDED

## ACTVITY 1: BECOME A BRILLIANT BUG EXPLORER (PAGE 4)

## Objectives:

- To develop an appreciation and excitement for the world around us
- To identify different members of the Invertebrate Family and their features


## Outcomes:

An 'Explorer Fact-File' with cover sheet; a survey of a garden or local green space; a table of the different members of the Invertebrate Family and their features.

## ACTIVITY 2: CREATE A BRILLIANT BUG PHOTO ALBUM (PAGE 8)

## Objectives:

- To understand that there a variety of different insects and that they come in all shapes and sizes!
- To identify different insects in a green space by recording sightings


## Outcome:

A completed 'Creepy Crawly Photo Album' recording the different colours, markings and sizes of wings and helping to identify different species.

## ACTVITY 3: BUILD A BUG HOTEL (PAGE 11)

## Objectives:

- To describe the natural habitat of an insect found in a green space
- To empathise with creatures and understand the need for animal welfare and protection


## Outcomes:

A postcard describing the habitat of an insect of choice; a completed 'Bug Hotel' suitable for a variety of bugs to live in; a record of any bugs visiting their new habitat.

## ACTIVITY 4: MAKE A PLEDGE TO BRILLIANT BUGS (PAGE 14)

## Objectives:

- To identify and understand why brilliant bugs are so important to the planet
- To create a list of actions for protecting brilliant bug


## Outcome:

A poem and illustration entitled, 'What Brilliant Bugs Mean to Me'; a list of actions for helping to protect the bugs; a Conservation Pledge.

## BECOME A BRILLLANT BUG EXPLORER

## Explorer Task 1: My Explorer Fact-File

First things first: before we can get started, you need to make sure that you've got a file or folder to keep all of the information that you will gather during the course of these activities.

Decorate the front of your Explorer Fact-File by completing the cover sheet template below. Once decorated, carefully cut it out and stick this to the front of your file or folder.


## BECOME A BRILLLANT BUG EXPLORER

## Explorer Task 2: Venturing Outside

It's time to go outside! Use the headers below to record what you find in your garden or local green space. Take photographs or make drawings of anything interesting and print them off so that you can keep them in your Explorer Fact-File.


Number of bugs spotted:

Area where most bugs were spotted:

Possible reasons for this:

Other creatures spotted living in this area:

My observations: $\qquad$

My

## BECOME A BRILLLANT BUG EXPLORER

## Explorer Task 3: Meet the Family

Use pages 10-11 in The Book of Brilliant Bugs to help you distinguish between different types of INVERTEBRATES. What are their key differences?

(FULL SIZE, PRINTABLE SPREAD AVAILABLE ON PAGE 19)

## BECOME A BRILLIANT BUG EXPLORER

Explorer Task 3: Meet the Family (continued)
Note down what you find out from the extract in the table below. Can you put any of the bugs that you found in Explorer Task 2 into the correct category?

| INVERTEBRATE |  |
| :---: | :---: |
| FAMILY MEMBERS | WHAT I FOUND OUT FROM THE EXTRACT |
| Anthropods |  |
| Insects |  |
| Arachnids |  |
| Myriapods |  |
| Crustaceans |  |
| Molluscs |  |
| Worms |  |
| Gastropods |  |

## CREATE A CREEPY CRAWII PHOTO ALBUM

## Explorer Task 1: All Shapes, Sizes and Colours!

In The Book of Brilliant Bugs, Jess French showcases the incredible variety and beauty of creepy crawlies. Insects make up the biggest group of all the invertebrates - in fact, of all the animals! There are more than one million different types of insects, split into 24 groups.

(FULL SIZE, PRINTABLE SPREAD AVAILABLE ON PAGE 20)
Study the extract supplied and answer the questions with a partner:
What type of insect has 'stingers' which can 'inject a painful venom'?

Which two insects have 'beautiful fluttering wings'?

What group makes up 'nearly half' of all insects?

Which insects are mainly found in 'tropical environments'?

## CREATE A CREEPY CRAWIY PHOTO ALBUM

## Explorer Task 2: My Creepy Crawly Photo Album!

How many different insects listed in the extract on the previous page can you find in your garden or local green space? Use the supplied sheet (p.10) to create a photo album showcasing some of the different creatures you find. You can make sketches of what you see or take photographs - whatever you prefer!


Consider: which creepy crawlie do you like the most?
Which are you most interested in? Why?

## MY CREEPY CRAWLY PHOTO ALBUM



## ACTIVITY THRE <br> BUILD A BUG HOTEL

## Explorer Task 1: Brilliant Bug Habitats

Just like you, creatures are at home in their natural habitats.
Look at the information that you have already gathered in your Explorer Fact-File. What sort of habitat do some of the bugs you've discovered live in? Choose one of the insects that you included in your Creepy Crawly Photo Album. Then, take another look outside and fill in the house template below. You can use the writing prompts to help you.


What does the habitat for your chosen bug LOOK like? Is there any shade or area for the bug to camouflage themselves?

What plants or soil can you see? (Take photographs)

## How much space do the bugs have?

## - ACTIVITY THREE <br> BUILD A BUG HOTEL

## Explorer Task 2: Bug Postcard

Imagine that you are a bug living in your natural habitat. Write a postcard to describe what it's like in your habitat - and don't forget to include a drawing or a photograph of it on the front!
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## Explorer Task 3: Build a Bug Hotel

Use the directions on pages 76-77 of The Book of Brilliant Bugs to build your Bug Hotel! Remember, a well thought out Bug Hotel can attract many different types of bugs. If you manage your patch to create a breeding habitat, you may see even more!

(FULL SIZE, PRINTABLE SPREAD AVAILABLE ON PAGE 21)

Consider: does your habitat provide all of the things that creatures need in their home?
Take pictures of your new Bug Hotel as it develops. Record how many bugs you see!

## ACTIVITY FOUR

## MAKE A PLEDGE TO THE BRILLIANT BUGS

## Explorer Task 1: What I Have Learned

Using the table below, make a note of some of the brilliant bugs that you have found out about using the book, The Book of Brilliant Bugs, and your Explorer Fact-File.


WHAT FACTS DO I KNOW ABOUT THEM?

WHAT QUESTIONS DO I STILL HAVE ABOUT THESE CREATURES?

|  |  |  |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |
|  |  |  |

## ACTIVITY FOUR

## MAKE A PLEDGE TO THE BRILLIANT BUGS

## Explorer Task 2: What Brilliant Bugs Mean to Me

Consider the question: what do these brilliant bugs mean to you? Create a list of words that come into your head when you think about these creatures. Use inspiration from your Explorer Fact-File!


## ACTIVITY FOUR

## MAKE A PLEDGE TO THE BRILLIANT BUGS

## Explorer Task 3: Brilliant Bug Poems

Use the template below to write a poem and a corresponding illustration to show what brilliant bugs mean to you. Consider how you can convey why these bugs should be protected.

WHAT BRILLIANT BUGS MEAN TO ME


## MAKE A PLEDGE TO THE BRILLIANT BUGS

## Explorer Task 4: How Brilliant Bugs Help the Planet

On pages 72-73 of The Book of Brilliant Bugs, the author Jess French describes why bugs are so important to the planet. What are some of the reasons, according to the extract? List at least two.

(FULL SIZE, PRINTABLE SPREAD AVAILABLE ON PAGE 22)

## ACTIVITY FOUR

## MAKE A PLEDGE TO THE BRILLIANT BUGS

## Explorer Task 5: Protecting Brilliant Bugs

Look at the six ways below that you can help to protect these creatures. For each thing listed, write down an action that you can achieve in your daily life:

1. Get gardening! Monitor brilliant bugs in our gardens and green spaces

## ACTION

2. Campaign against human destruction of green spaces

## ACTION

3. Reduce your carbon footprint

## ACTION

4. Reduce, re-use and recycle!

## ACTION

$\qquad$
5. Be respectful of all wildlife and habitats

## ACTION

6. Reduce artificial light sources

## ACTION

## Explorer Task 6: My Pledge

Use your list of actions to write a Conservation Pledge to brilliant bugs!
I PLEDGE TO PROTECT BRILLIANT BUGS
Here is my conservation pledge:

## MEET THE FAMIV

The invertebrate family is enormous!
We split it into smaller families to help us understand it a little better. Some of the main groups of invertebrates are arthropods, worms, and molluscs, but sponges, corals,

and starfishes are also invertebrates!


Insects are by far the biggest group of arthropods. In fact, around 80 per cent of all animals on Earth are insects! Insects have six legs, three segmented body parts, compound eyes, and a





