

# THE WORM HOUSE

Small creatures sparking big lessons in sustainable science.

FEATURING OUR UNIQUE  
MINIBEAST METAMORPH LAB

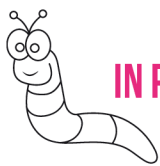




# WHO ARE THE WORM HOUSE?



At The Worm House, we specialise in turning complex biological ideas into unforgettable hands-on learning. Our patented Minibeast Metamorph Lab lets pupils observe real-time insect metamorphosis while discovering how these remarkable organisms can convert plastics into nutrient-rich compost. Alongside expert-led bug-hunting sessions and compost-bin building, we provide schools with engaging, curriculum-aligned experiences that make sustainability tangible, relevant and exciting for young people.



IN PARTNERSHIP WITH...



## ABOUT OUR FOUNDER

### Tony Farkas



Tony is an innovator and sustainability advocate who invented a patented insect breeding box that consumes plastic and converts it into biodegradable compost. He began this journey five years ago to create a secure, child-friendly box that could be dropped without spilling while giving students the same sense of wonder as a David Attenborough documentary.

Through intensive R&D, Tony has developed specialised skills that allow him to design tailored educational products and work closely with teachers to meet unique classroom needs. His breeding box provides a 365-day view of the metamorphosis process and has received exceptional feedback at schools, STEM events, and major forums—including the Department for Education stand at the Schools Show and the Science Teachers Forum at Nottingham University.

Focused on inspiring young minds and promoting sustainable learning, and with glowing reviews from the many schools he has visited so far, Tony aims to bring his breeding boxes into schools nationwide.

**“I love watching the larvae, the way they move is amazing and they grow so quickly” -  
Chloe, 9**

[WWW.THEWORMHOUSE.CO.UK](http://WWW.THEWORMHOUSE.CO.UK)

# WHAT CAN WE OFFER YOUR SCHOOL?



Our programmes bring science to life, enriching learning through hands-on exploration, sparking curiosity, engagement, and a lasting connection to sustainability... but we will tailor our delivery to meet YOUR needs!

*Get in touch to be part of something wonderful and inspire young minds in your school.*

## WHOLE DAY VISIT

A typical visit includes rotating activity stations such as:

- Lego engineering challenges (designing tracks/habitats).
- Microscopy: viewing insect stages close-up.
- Tony-led practical sessions where pupils handle insects, ask questions and observe metamorphosis.

## SCHOOLS CAN BOOK:

- Assemblies (20–30 minutes)
- Hook Days / Topic Launch Days
- Whole-year-group workshops
- Ongoing visits or box-only hire packages
- 6 x Weekly sessions over one term or more



## SPECIALISED LESSONS ON: (please call to discuss other topics that may not be on the list - these are just some suggestions)

- Plastics and oil formation.
- Recycling and biodegradation.
- Cold-blooded animals and temperature effects.

## WE RECOMMEND (our three core programmes, each available for EYFS–KS3:)

### 1. Life Cycles & Metamorphosis

Children follow real insects through every stage.

Learning outcomes match National Curriculum objectives.

### 2. Plastic to Compost: Environmental Science

Insects breaking down plastics; sustainability in action; recycling workshops.

### 3. Cold-Blooded Creatures & Temperature Investigations

Hands-on experiments comparing growth rates at different temperatures.

**“It has been the perfect hands-on, nature-based activity for my son, and we’ve loved having it in our home.”**

**- Laura, Home Box**

**WWW.THEWORMHOUSE.CO.UK**

INTRODUCING

# THE MINIBEAST



A PATENTED INNOVATION BRINGING REAL-LIFE BIOLOGICAL CHANGE, SUSTAINABILITY AND SCIENTIFIC ENQUIRY DIRECTLY INTO YOUR CLASSROOM...

The **Minibeast Metamorph Lab** is Tony's unique, purpose-built system that lets pupils observe live metamorphosis with complete clarity.

The lab is a breeding box for **Darkling Beetles** (better known as superworms and mealworms) and brings one of nature's most extraordinary processes - metamorphosis - directly into the classroom.

These are not static displays. They're living systems that turn complex ideas into hands-on exploration, deepening understanding in ways textbooks and videos simply can't.



## A FRONT-ROW SEAT TO NATURE'S HIDDEN WORLD

Students can observe the entire life cycle in real time:

- Beetles mating and laying eggs in a 3D-printed egg trap
- Tiny larvae hatching - smaller than a pinhead
- Colour shifts from white to brown as they grow through multiple moults
- Pupation and emergence of the next generation of adult beetles

Its design also demonstrates a remarkable environmental process: how specific insects can digest and break down plastics, turning them into compost.

No experience needed to set up the box, full instructions provided and free help line

**“We built mazes out of Lego for the larvae to try and find their way through. They didn't get very far until we started using a piece of potato to guide them through it. It was brilliant fun” - Gus, 12**



# METAMORPH LAB



Because pupils are constantly observing, questioning, describing changes and recording findings, the Lab naturally strengthens spoken language, scientific vocabulary, explanatory writing and non-fiction literacy skills.

Teachers can easily integrate discussion, prediction, note-taking, report-writing and instructional texts into their lessons with minimal planning load.

Whether used during Tony's in-school workshops or hired independently, the Metamorph Lab provides:

- A safe, controlled environment for real-time scientific investigation.
- Clear curriculum links to Science, PSHE and Literacy.
- A high-impact STEM experience that fosters curiosity, critical thinking and problem-solving.
- A powerful hook for whole-school themes around sustainability, eco-responsibility and global citizenship.



**SMALL CREATURES. BIG LESSONS. REAL SCIENCE — RIGHT WHERE PUPILS CAN SEE IT.**

**LEARN THROUGH WHOLE DAY VISITS, WEEKLY SESSIONS WITH TONY, ASSEMBLIES, SCIENCE CLUBS OR TOPIC HOOK DAYS...OR WHY NOT HIRE YOUR OWN IN-SCHOOL MINIBEAST METAMORPH LAB?**

**“I really enjoy holding the larvae and looking at them close up. The way they tickle as they move is really funny.”- Lauren, 11**

# ADDITIONAL SERVICES



## MANAGING YOUR CLIMATE ACTION PLAN

### A Complete Climate Action Partnership...

Many schools struggle to find the time, resources, and expertise needed to create, implement, and maintain a whole-school climate plan. That's where we step in...

We can design, support, or fully manage your Climate Action Plan in collaboration with your leadership team, Eco Council, and student Climate Ambassadors.



### Our Support Includes:

- Audit of your current environmental practices
- Creation of a bespoke Climate Challenge Plan aligned with national priorities
- Clear targets and achievable milestones
- Workshops and assemblies to launch the plan to staff and pupils
- Monitoring and reporting, allowing you to demonstrate progress
- Integration with science, geography, and PSHE curriculum areas



### Examples of Additional Support:

- Setting up school-wide recycling stations
- Delivering insect metamorphosis modules
- Bug-hunting and species identification events
- Building wildlife habitats, wormeries, and pollinator areas
- Supporting your school in completing environmental awards and accreditations



If you have a specific request, we will work with you to design a solution that fits your needs perfectly. Every school is different - different spaces, different priorities, different challenges - and we tailor our approach accordingly.

Let's Work Together for a more sustainable future!

**“The darkling beetles and larvae from The Worm House are without a doubt the most engaging resource I have ever had in my classroom. All the children I teach are endlessly fascinated by them, their lifecycle, and their plastic-eating. We have got so much learning and enjoyment out of them, and my classroom would be a duller place without them.” - Paul Tyler, Head of Science**



# PSHE, WELLBEING & SEND



## PSHE:

- Encourages curiosity, confidence and communication.
- Helps children self-regulate by focusing on calm, observable biological processes.

## SEND:

Originally developed with autistic learners in mind, the box provides:

- A sensory, non-verbal engagement tool.
- A soothing, repetitive visual stimulus that many SEND pupils respond positively to.
- A safe structure for interaction, communication and focus.

“They stimulate excellent engagement from our students – both in terms of the biology and their real-world application. We have used the larvae in lessons across the curriculum – from ecology to the human effects on our environment. The students are in awe (and a little bit of horror) of these guys!”

— Head of Biology, Bohunt School

**CALL TO DISCUSS YOUR UNIQUE REQUIREMENTS AND FOR A PROGRAM THAT BEST SUITS YOU  
AND YOUR PUPILS' NEEDS...**

## GET IN TOUCH

email: [tony@thewormhouse.co.uk](mailto:tony@thewormhouse.co.uk) tel: **07944 038 530**

follow us on...



@Superworm super



@Superworms2022



@Tony Farkas



use the QR code to visit the website

**“The beetles fascinate me, they are always so busy and so fun to watch.” - Seb, 10**

# CURRICULUM LINKS



## KEY STAGE 1–2: BUILDING FOUNDATIONS IN LIFE SCIENCE

The Metamorph Lab gives younger pupils the chance to observe real insect life cycles, directly supporting National Curriculum objectives in Living Things and Their Habitats, Life Cycles, and Working Scientifically. Children can classify minibeasts, describe simple life processes, and explore how animals depend on their environment. Watching insects digest plastics introduces early concepts of sustainability, recycling and environmental responsibility in a way that's concrete and memorable. Cross-curricular links are seamless — pupils can develop non-fiction writing, build vocabulary, and apply maths skills when recording observations, tallying changes or sequencing life-cycle stages.

## KEY STAGE 3–5: DEEPENING SCIENTIFIC UNDERSTANDING AND ANALYTICAL SKILLS

At secondary level, the Lab supports more advanced study of metabolism, ecology, decomposition, environmental systems and adaptation, aligning with KS3 biology and GCSE content on ecosystems, human impact, and biological processes. Pupils can compare variables such as growth rates, temperature effects and habitat conditions, strengthening skills in data collection, analysis and scientific enquiry. The Lab's focus on insects breaking down plastics offers a real-world case study for biodegradation, materials science, and sustainability, opening the door to cross-curricular exploration in geography (resource management, human impact) and design & technology (bio-inspired solutions).

## BEYOND KEY STAGE 5: ENRICHMENT, RESEARCH SKILLS AND STEM PATHWAYS

For post-16 learners, the Metamorph Lab becomes a platform for independent investigation and extended research, supporting A-level biology topics such as biochemistry, digestion, ecosystems, environmental science and applied biology. Its live, measurable processes allow students to design their own enquiries, practise statistical methods, and explore emerging areas like bio-recycling and circular economy innovations. Cross-curricular opportunities expand into environmental ethics (philosophy/PSHE), STEM career guidance, and extended written analysis, giving older students authentic experiences that strengthen personal statements, EPQs and university preparation.