

45 min

Science
Workshop



**Ages
3-8**

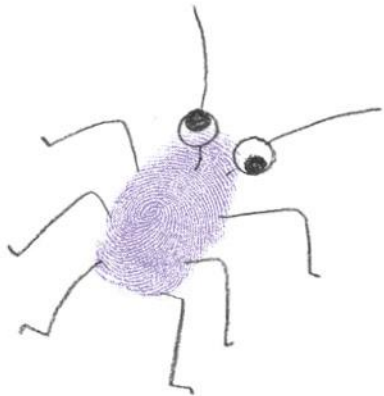


Learn-Through-Play Workshop

This OKIDO downloadable workshop is designed for families and can be easily delivered in the home by YOU. It is designed in collaboration with the British Science Association and follows learning to facilitate Early Years and KS1 development using easy-to-find objects from around the home.

This 45 minute learn-through-play workshop includes:

- Watch an episode of Messy goes to OKIDO together
- Discuss the science with easy-to-follow pointers around the subject
- Complete a make-and-do science activity
- Reinforce the learning with a fun, follow-up worksheet



Theme - **Nature**
Subject - **Metamorphosis**



For lots more workshop activities subscribe to OKIDO Magazine at www.okido.com

Watch and learn together

Together with your child, watch this 10-minute episode of Messy goes to OKIDO - 'Messy Morphosis'.

[Link to Messymorphosis episode 10 on BBC iplayer](#)

(if you are outside UK you can watch a clip on [our YouTube channel](#))

In this episode Messy Monster wants to know why all the ants are so busy, walking in lines and carrying heavy things. So off he goes to OKIDO to see if he can get some help.

Here, we learn all about caterpillars and butterflies, that insect bodies have three parts, the **thorax**, **abdomen** and **head**, and that all insects have two **antennae** and three pairs of legs.

Talk about the science

Right after watching, ask your child some questions about what they've seen:

- What were the caterpillars living inside?
- What do caterpillars eat?
- What is a grown-up caterpillar?
- What do moths like?

Now let your child think about insects that they know and have come across:

- Make a list of all the insects you know.
- Where do you see insects? Maybe on a nature walk, garden, terrace or park that you know.

If your child asks a question that you don't know the answer to - just investigate together to find out!

Don't worry - all the information you need to know is explained in the episode :)



New words: Thorax, abdomen, antennae

Now make some simple, climbing, creepy-crawly puppets

You will need:

- Paper or thin card
- Paper tape
- Paper straws
- Pens and tissue paper to decorate
- String or wool

First, show your child how to thread a piece of string through a short piece of straw. This will engage their motor skills and is a **life skill** that will help lead to successful sewing and crafting.

- Draw the outline of an insect, around 13 cm long.
- Now add all the details to recognise this creature (ladybirds and butterflies are a good ones to start with)
- Cut out and tape two 5 cm pieces of straw, parallel to each other on the back
- Thread a 2 m piece of string from the bottom of one straw and then the top of the other so that both ends are hanging downwards

Hook the string over a coat hook or door handle. Push the insect to the bottom of the string, then pull both ends of the string smoothly apart - watch the insect climb!

Experimenting and data collecting

You can experiment with:

- Making lots of different insects
- Pulling the puppet strings slowly and quickly

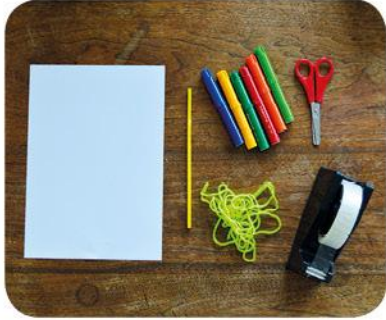
Older children could create an insect landscape to put onto the wall for them to climb up through.

You can save these insect puppets in a box and put air holes in to teach your child how real insects would need air to breathe.

Why not find a notebook for your child to use as a nature notebook? They can draw or make a note of any insects they see when you are out and about in nature.

Try and use paper tapes so that once finished with, the insects can be recycled easily and always use a paper straw. Remind your child that the string can be reused again for lots of uses around the home.

CLIMBING CREEPERS



You will need: card, straw, string, pens, tape and scissors..



Draw some big creepy-crawlies on your card and cut them out.



Cut two short pieces of straw and stick them onto your bug's back.



Thread about a metre of string through the two straws. Knot the ends.



Tape the middle point of the string somewhere high up. (Get an adult to help you do this). Pull the two ends apart and your creepy-crawler will crawl up the string!



Share your images with us at [#okidoworkshop](https://twitter.com/okidoworkshop)

How many legs?

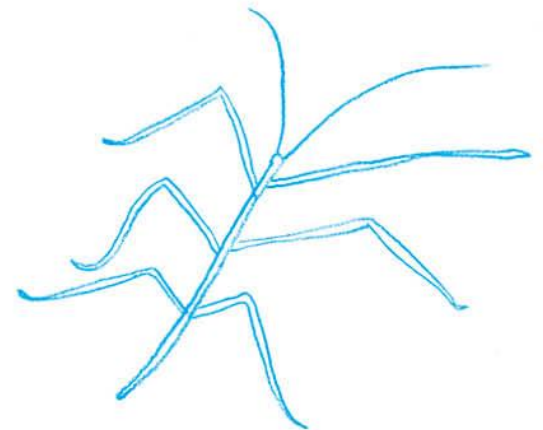
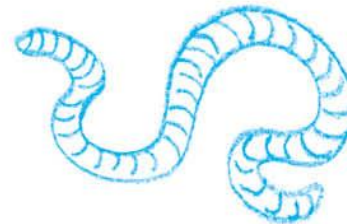
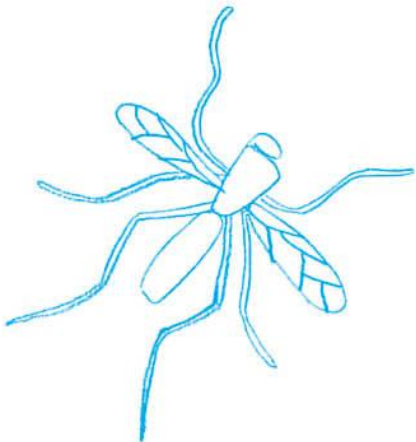
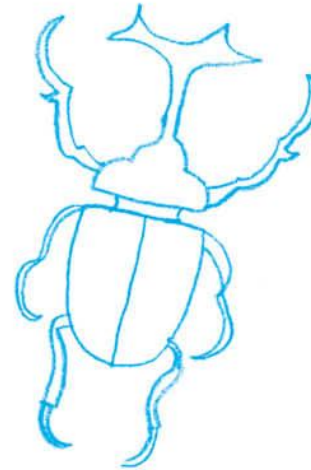
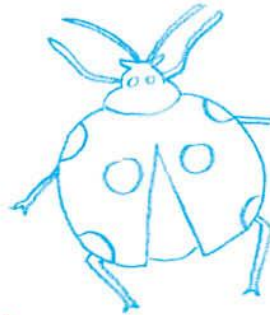
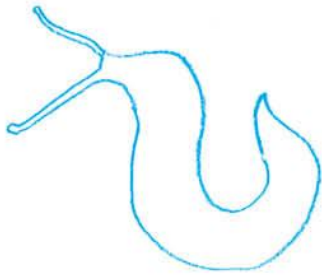
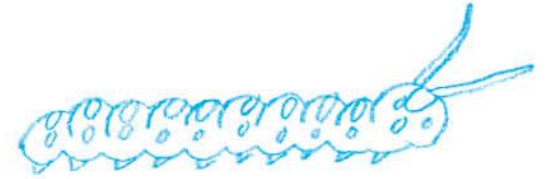
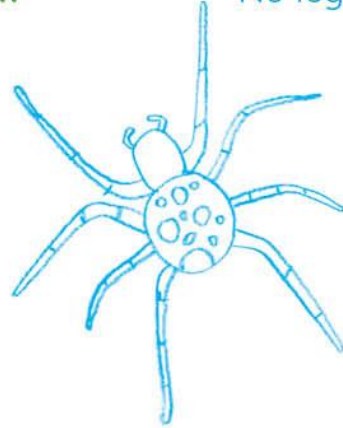
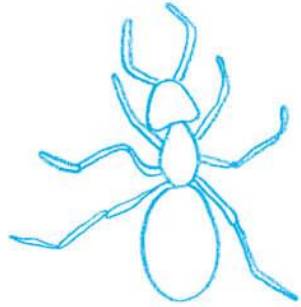
Colour-in the creepy-crawlies:

6 legs (insects) in **blue**

More than 10 legs (myriapods) in **green**

8 legs (arachnids) in **red**

No legs (apods) in **yellow**



Fingerprint bugs

Use a stamp pad to make some fingerprints. Then draw legs to turn them into bugs!

