



Explore the gallery and learn more about the lives of these animals and how they survive in their habitats.

Gallery visited (please see accompanying map)	Creepy Crawlies	
Suitable for	Key Stage 2 (ages seven to 11)	
Curriculum links	QCA Science Unit 4B: Habitats QCA Science Unit 6A: Interdependence & Adaptation NC Science: Life Processes & Living Things 1c, 4b, 4c, 5b, 5c	
Example page	www.nhm.ac.uk/creepy-crawlies-ks2	
Pre-visit preparation	 vocabulary: life cycle, chrysalis, larva, pincers, adaptations a basic understanding of what invertebrates are 	

Activities within the guide

The children will be asked to complete six challenges:

	Challenge	Description
R.	1. Research challenge	Find out some information about the invertebrate group
×	2. Adaptation challenge	Explore how the mouthparts and limbs of invertebrates are adapted
	3. Life cycle challenge	Look at the life cycles of a selection of invertebrates
	4. Prey challenge	Find out how pincers are used in the invertebrate world
	5. Star challenge	Explore the gallery and choose a Star Creepy Crawly of the week
J.	6. Comparing challenge	Compare millipedes and centipedes

These can be done in any order within the gallery. Depending on how many challenges the children complete, they can reach these levels:

- researcher (two challenges completed)
- scientist (four challenges completed)
- professor (six challenges completed)

Certificates

On return to school, certificates (available at the end of this document) can be printed out and awarded, depending on the number of challenges completed.

Techniques

There are a range of techniques used within the guide. To complete the challenge, children will be required to:

- make choices based on observation
- write short answers
- choose appropriate descriptive vocabulary
- make decisions about an animal's adaptations based on physical features
- make sketches
- discuss answers with a partner
- extract information from exhibits and their information boards

Follow-up activities

Award ceremony

Print out certificates and have an award ceremony.

Science/ICT/Literacy

Research some less well known invertebrate life cycles and create a display about them. Use your information to make a book or a presentation to the rest of the class.

• Literacy/ICT

Create an information leaflet about an invertebrate. This could be an informative text, or a care guide on how to look after an invertebrate pet. This could be created on the computer.

Suggested answers for challenges

Research challenge

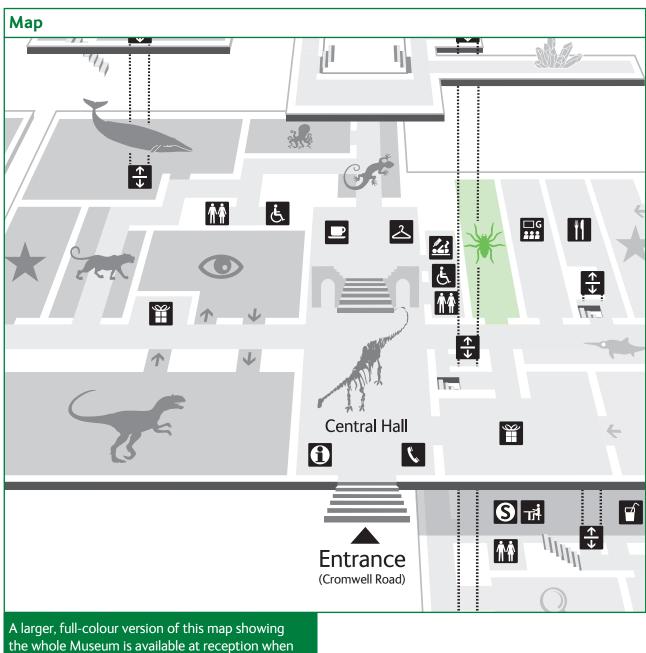
Question 3: Arthropods.

- **Question 4:** Crabs and related species, centipedes and millipedes, spiders and related species, insects.
- **Question 7:** The crab has to shed its skeleton so it can grow or increase in size (its skeleton can't expand).

Adaptation challenge

- Question 2: Hawk moth has mouthparts like a straw, used to sip nectar from plants. The common bluebottle has mouthparts like a sponge, used to soak up nutrient soup (after vomiting digestive juices over food). The assassin bug has mouthparts like a syringe.
- **Question 3:** Answers will vary, but might include statements such as 'Sometimes, I feed like a dragonfly because I use my jaws to grab food'.
- **Question 4**: Lobster cracker, preying mantis pliers, barnacle net.

	Life cycle ch Question 1: Question 2:	Children need to draw the life cycle using the model to support them.				
	Prey challenge					
T	Question 1:	A ghost crab uses its pincers for tearing apart its victims. An earwig uses its pincer to trap a fly (or to trap prey).				
	Question 2:	Answers will vary, but students could draw pincers from a scorpion, earwig or ghost crab.				
	Question 3:	The poison from a black widow spider is strong enough to kill a human ('not' should be crossed out). Tropical centipedes inject poison into their prey and eat large insects, lizards and small mammals ('small' should be crossed out and replaced with 'large insects, lizards and small mammals').				
	Star challen Answers will va	nallenge s will vary – children may choose to draw any creepy crawly in the gallery.				
	Comparing challenge					
Question 2:			Centipede	Millipede		
		How many legs per segment	Two (one pair)	Four (two pairs)		
		Does it eat meat?	Yes	No		
		Can it roll up?	No	Yes		
		Can it swim?	Yes	No		
		Is it fast for its size?	Yes	No		
	Question 3:	n 3: Answers will vary, but may include the following. The centipede's speed enables it to chase its prey (meat). The millipede can roll into a ball for protection (because it is slow, it can't run to escape predators).				



you arrive.





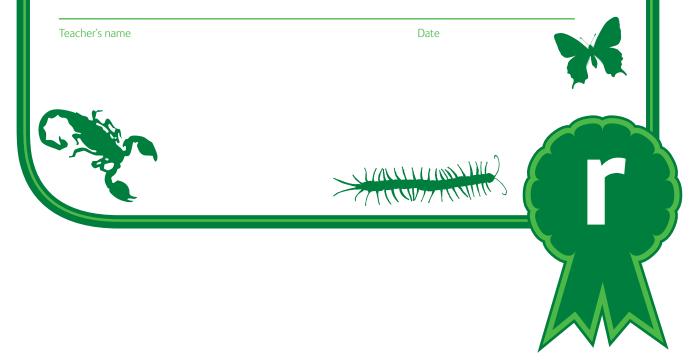
This is to certify that



became a



in the Explore and Discover... Creepy crawlies challenge







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in the Explore and Discover... Creepy crawlies challenge

Teacher's name Date





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