## Classification of animals by their observable features

Pupils can sort and classify native animals by their observable features as defined below:



This diagram shows how common native animals can be sorted and grouped and may be used as a first stage in the progression towards an understanding of the higher level of animal classification.

# Key questions for land invertebrate identification

Use the Identification Cards to help find out the name of your animal. Carry out the following steps and answer the questions. Use **Pupil sheet 2** to help pinpoint your animal.

1 Sort the cards into sets by the 'number of legs' logos shown below:

		ĘŚ	(Ref.	Ĩ	<b>N</b>	
	0 legs or none visible	6 legs	8	legs	14 legs or more than 4 pairs	More than 14 legs
2	How many visible legs does the animal have? (Select the set of cards with the matching logo)					
	•••••	•••••	•••••			• • • • • • • • • • • • • • • • • • • •
3	Does it have wings?					
	Yes					
	No					
4	What is its size? (approximately)					
	• 2 mm to 7 n	ım	Tiny			
	• 8 mm to 30	mm	Small			
	• 31 mm to 12	0 mm	Medium			
5	What is its colour?					
	•••••	• • • • • • • • • • • • • • • • • • • •	•••••			•••••
Ansv mato	ver the following q ching your animal.	uestions by lo	oking at the	e Identifica	ation Card you h	ave chosen as
6	Which feeding group does it belong to?					
	Herbivore Feeds on plants					
	Carnivore Kills and eats other animals					
	• Detritivore Feeds on fragmented organic matter $\Box$					

- Omnivore Feeds on both plants and animals
- Scavenger Feeds on dead and decaying animals
- 7 What is its habitat?

My animal is a .....



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## Metamorphosis and identifying larvae

### 1 Metamorphosis

Metamorphosis is a marked structural transformation during the development of an organism, as seen in the change from larva to adult insect. There is **complete metamorphosis** and **incomplete metamorphosis**.

#### **Complete metamorphosis**

The insects undergo a complete change through the stages of egg to larva, to pupa and to adult insect. The larvae often feed on diets quite different from the adults. For example, adult butterflies feed on nectar and caterpillars feed on plants.



#### **Incomplete metamorphosis**

The wings gradually develop on the outside of the body which gets larger in stages, shedding its outer covering as it becomes too tight. The nymph, as it is called, often looks very like the adult and eats the same food. For example, Grasshoppers and Dragonflies.



### 2 Identifying larvae

Many different types of insect larvae and pupae can be found when looking for invertebrates, particularly among soil, logs, leaves and leaf litter.

#### There are four basic types of insect larvae:



Butterfly and moth larva



Two-winged fly larva



Beetle larva



Ladybird larva

#### There are two main types of pupa:



Exarate, where the appendages are free, such as in dragonflies



Obtect, where the appendages are fixed in a case, such as in butterflies

# Mammals, what they eat and their adaptations

Name: ...... Date: ...... Weather: .....

The teeth of mammals are specifically adapted to suit their type of food.

1 Identify the animal 2 Define its food 3 Pinpoint its adaptation, A, B or C



Results: Which type are most often seen in school grounds, parks, etc and why is this?