Science Focus Living Things & Their Habitats Year 6

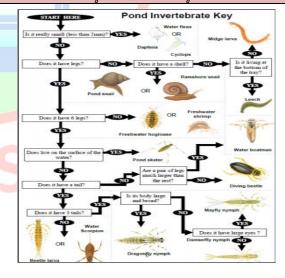
Summer 1

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Hauseas	Key Knowledge
How can	Animals can be grouped into one of two categories: vertebrates and
animals be grouped?	invertebrates
How can	There are 5 ways vertebrates can be
vertebrates be	grouped: Fish, Amphibians, Reptiles,
grouped?	Birds & Mammals
What are the	Fish breathe with gills; lay eggs in
key	water; has fins and scales; body
characteristics	temperature changes.
of a fish?	,
What are the	Amphibians are born with gills but
key	then develops lungs; lays eggs in
characteristics	water; has damp skin; body
of an	temperature changes.
Amphibian?	
What are the	
key	Reptiles breathe with lungs; lay
characteristics	eggs on land; has dry scaly skin;
of a Reptile?	body temperature changes.
What are the	Bind a bookly with longer law and
key	Birds breathe with lungs; lays eggs
characteristics of a Bird?	with hard shells; has feathers; has
What are the	a steady body temperature.  Mammals breathe with lungs; gives
key	birth to live babies; has body hair
characteristics	or fur; has a steady body
of a Mammal?	temperature; feeds babies milk.
How can	There are 3 ways to group
invertebrates	invertebrates: Insects: 3 body
be grouped?	sections and 6 legs; Arachnids: 2
	body sections and 8 legs; and
	Molluscs: slimy foot and often have
	a shell.
What are the 👝	Invertebrate or Vertebrate
key features to	• Mammal/Reptile/Fish/
distinguish	Amphibian/Bird
between	· Colour
animals?	• Length
	Number of legs
	• Number of body segments
	<ul> <li>Distinguishing features</li> <li>Habitat</li> </ul>
What are the	• Flowering or non-slowering
key features to	• Grass/ Cereal/ garden shrub/
distinguish	deciduous/algae/
distinguish between	deciduous/algae/ coniferous/fern
	deciduous/ algae/ coniferous/ fern • Colour
between	coniferous/fern
between	coniferous/ fern Colour
between	coniferous/ fern Colour Height
between	coniferous/ fern Colour Height Number of flowers Fruit bearing or not Distinguishing features
between plants?	coniferous/fern Colour Height Number of flowers Fruit bearing or not Distinguishing features Usual location
between plants?  Who is Carl	coniferous/fern Colour Height Number of flowers Fruit bearing or not Distinguishing features Usual location Carl Linnaeus is a key scientist in
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- \* Locate a range of habitats on the school site. Compare with animals from different habitats
- locally, in other areas in the UK and abroad.
- $\tt m$  What is the rarest animal on the school site?
- $\ensuremath{^{\text{m}}}$  Design charts and lead another year group on a bug hunt using these charts to classify.

Key Vocabulary	
Classification	Grouping something using its
	reatures
Taxonomy	The field of science focused on
	classification
Distinguish	Recognise a difference.
vertebrate	Any animal with a backbone.
Invertebrate	Any animal without a backbone.
Micro-organism	A microscopic organism, especially
-	a bacterium, virus or fungus.
Kingdoms	The highest classification into
-	which living organisms are grouped
Annelids	Have no limbs and their body is
	divided into segments e.g. worm.
echinoderms	Cold blooded marine creatures with
	arms or spines. The central body
	contains their organs and mouth
	e.g. starjish.
Exoskeleton	An external skeleton
Endoskeleton	An internal skeleton
In <mark>terdepend</mark> ent	Organisms that are dependent on
	one another. So, when a habitat
	changes, the plants and animals
	are all affected up the food chain.
	For example, when there is little
	rain, pond weeds die and the fish
	that rely on them for food find it
	hard to survive. This in turn affects
	the birds that feed on the fish, etc.
gamete	A mature haploid male or female
	germ cell which is able to unite
	with another of the opposite sex.
Sexual reproduction	Where genetic material from two
	individuals of opposite sexes
	mixes <mark>to</mark> create offspring. It
	involve <mark>s</mark> the fusion of male and
	female gametes in a process called fertilisation.
Asexual	Produces individuals that are
reproduction	genetically identical to the parent.
	This does not involve the fusion of
	gametes or change in the number of
	I man was an an analysis and as we although the

## Diagrams and Symbols



## Greater Depth Thinking

Can I create my own classification grid to group some of the Earth's most obscure creatures?

Explain how living things can be interdependent on other living things and how removing a living thing from a habitat impacts on life in that habitat.